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Digital School

Professional JavaScript Developer Bootcamp Syllabus

Learn to code and make the jump with our full-time and part-time coding bootcamps

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Who we are

Hi! We're James, Robert and Katie, we're family, and in 2018 we founded The Jump.

James Sherry
Co-Founder / Head of Teaching

- **15 years experience as a professional Full-Stack Developer**
- **5 years teaching at General Assembly prior to co-founding The Jump**
- **Self-taught Dev before it became cool!**

Robert Sherry
Co-Founder / Head of Ops

- **10 years working in the City in Recruitment and Talent Acquisition**
- **5 years in performance coaching prior to co-founding The Jump with James**
- **Brother to James and partner to Katie**

Katie Smith
Co-Founder / Head of Marketing

- **10 years working in financial services including Management Consulting, Corporate Social Responsibility and HR**
- **Became Company Director at The Jump in 2019**

Our purpose

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To train you to code professionally so that you can make the jump to either:

- A new career as a professional software developer
- The next level of your current career
- Building your own software to bring your ideas to life

Why?

Becoming a software developer lets you master the awesome power of tech and opens up so many new opportunities for you. We **LOVE** helping our students harness that power to unleash their potential, and we want to make sure that no one gets left behind as tech skills become evermore important for employability.

How?

By providing you with more accessible, in-depth and commercially-relevant **software engineering-training**, together with comprehensive **career-change support**, delivered by professionals who are dedicated to helping you make the jump.

What is the JavaScript Developer bootcamp?

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This professional JavaScript Developer bootcamp provides an extensive programme of in-depth, software engineering training and career-change support, so you can make the jump from little or no programming experience to becoming a professional JavaScript developer.

If you already know HTML and CSS and want to learn the world's most ubiquitous programming language to build and deploy enterprise grade software for websites and web applications, then this bootcamp is for you. Master both client and server-side JavaScript development, learn React plus other in-demand libraries and frameworks.

Who's it for?

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Adults looking to learn to code professionally, who already understand HTML and CSS, and want to focus on learning how to programme websites and web applications.

CAREER-CHANGERS LIKE NATALIA

Natalia made the jump from a make-up artist and visual merchandiser who had never seen a line of code before, to being a software developer with a leading digital product agency in London.

UPSKILLERS LIKE DWAYNE

Dwayne was a Quality Assurance Engineer and took the Full-Stack Developer bootcamp to upskill and make the jump to a better role with more hands-on software development work.

ENTREPRENEURS LIKE TOM

Tom works in SEO and had some ideas for products and services that he wanted to bring to life. He used the Full-Stack bootcamp to learn how to do exactly that and made the jump to launching his own businesses.

Can I get a job afterwards?

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Absolutely! From start-ups to global players, here are some of the cool places our grads have gone on to work as software developers!

What you'll learn

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Before we go into more detail, here's an overview of what you'll learn:

01

The constituent parts of the internet and websites / web applications: The client-server model (inc. APIs)

02

The programming languages and libraries to control those constituent parts e.g. JavaScript (inc. NodeJS & React), SQL/NoSQL, Shell, GraphQL, JSON and YAML

03

The tools & systems to create, edit, debug, test, deploy & host your code

04

Industry standards and best practice for writing software

Your journey to software developer

{the jump}

JavaScript: First, learn to programme your application or website to give it functionality

Weeks 1 - 5

Learn how to write and use JavaScript

Module outcome: Create the internal logic of applications that will take in data, process it and return the desired result to the console of your developer tools.
To do this you'll learn: The fundamentals of programming; the features of JavaScript and its syntax e.g. variables, data types and structures, control flow, loops and functions, methods, etc; Concepts such as scope, execution context, “this”, closures, abstraction, encapsulation, polymorphism, prototypal inheritance, Object Oriented Programming and CRUD ops.

Weeks 6 - 7

Use JavaScript to add functionality to User Interfaces (UI's)

Module outcome: Create interactive UI's that respond dynamically to events triggered by users, such as mouse clicks, or programmatic events such as timers.
To do this you'll learn: Browser resources e.g. web API’s; The DOM (Document Object Model); How to target elements in the DOM and styles in CSSOM, and manipulate them.

JSDOM

Week 8

Use JavaScript to connect to external resources

Module outcome: Send data to, and receive from, external services and applications.
To do this you'll learn: Transport layers, AJAX, Asynchronous Programming, and APIs (Application Programming Interfaces) and GraphQL for more performant API's.

{REST}

Your journey to software developer

{the jump}

JavaScript: Then, master the tools, frameworks and libraries to take you to the next level

Week 9	**Command Line Interface and Git** **Module outcome:** You'll be able to administer processes and perform tasks optimally, and be able to move code to remote locations (e.g. GitHub for collaborations).
Weeks 10 - 13	**React** **Module outcome:** Use React (the most in-demand and commercially valuable front-end JavaScript framework/library) to build more manageable and performant Single Page Applications (SPA's) through 'component based architecture'. **To do this you'll learn:** About SPA's, components, props, state, routers, context and hooks, and; styling with Styled Components and Material UI.
Weeks 14 - 15	**Realtime, Graphing and Animation** **Module outcome:** Create more engaging and complex animations, create applications that update in real-time, and create visualisations that tell a more effective story. **To do this you'll learn:** Libraries like Greensock, Three.js and D3.js; WebSockets; WebRTC
Week 16	**Software Testing** **Module outcome:** Know with certainty that the code you deploy will (continue to) work **To do this you'll learn:** Test Driven Development principles; TypeScript, ESlint, Cypress, Vitest

Your journey to software developer

{the jump}

JavaScript: Last but not least, learn to utilise servers, databases and DevOps

Weeks 17 - 19.5

The Back End

Module outcome: Create servers that perform processes such as calculating, validating and manipulating data, querying databases and distributing files and other data to the front-end of your application. Connect to 3rd party services like Twitter or Zapier. Administer relational and non-relational databases to persist data. Control the access rights of an application's users, based on their level of authentication. Host your sites and applications with cloud service providers and use Serverless technology.
To do this you'll learn: Server-side programming using JavaScript in Node.JS and it's framework Express; SQL (Structured Query Language) and NoSQL and specific databases including MongoDB, Postgres and neo4j; OAuth and OpenID Connect (Login with Google/Facebook etc.) and building your own REST/GraphQL API's.

node
express
mongoDB.
PostgreSQL
Firebase
neo4j
NEXT.JS
OAUTH

Projects you'll undertake

Build your portfolio to demonstrate the skills you've learnt

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Console App

Use Object Oriented Programming to create the internal logic of an application which takes in data, processes it, and prints the result in the console

DOM App

Create an interactive interface which responds dynamically to users and events by using JavaScript to manipulate the DOM (Document Object Model)

AJAX / API App

Connect your application to external resources so you can send and receive data to access services and applications

React App

Use React to replace the browsers default actions and create a Single Page Application that's more performant and delivers a better user experience

Optional extra

Create demonstrations of your ability to use animation, graphing and real-time technology

Server App

Create and configure a server to distribute files and data to the client-side and connect to 3rd party services - e.g. twitter, Twilio, Zapier etc.

Full-Stack App

Connect a database (that stores your sites data and files) to both a server (which processes and distributes that data) and the front-end (which provides access to it)

Serverless App

Use serverless cloud based technology such as AWS or Firebase to outsource the configuration and management of your server-side environment

Bootcamp format

Our JavaScript Developer bootcamp runs two evenings a week on a part-time basis for 19.5 weeks.

Part-time (evenings): 18:30 - 21:30, twice a week (Mon & Wed or Tues & Thurs), for 19.5 weeks

Taught live and remotely via Zoom so you can train from anywhere

~9 hours home/project work per week with support available when you need it

Our instructors have 15+ years experience as software developers

Sessions are a mix of live, interactive, instructor-led training, code-alongs and practical work

Class sizes are capped at 15 students to give you more personalised support

We recommend you have a good understanding of HTML and CSS before joining this particular JavaScript bootcamp

All lessons are live video recorded and shared after in case you miss a class or need to recap

Career-change support

We pride ourselves on giving you the support you need, even if it's beyond the bootcamp end date. Here's how...

05

Interviewing: We'll run mock interviews to give you some understanding of the interview process, what to expect and how to get the best results

04

Portfolio: Your portfolio is your shop window - we'll help you build and curate it to demonstrate all your skills, which will be invaluable for accessing opportunities

03

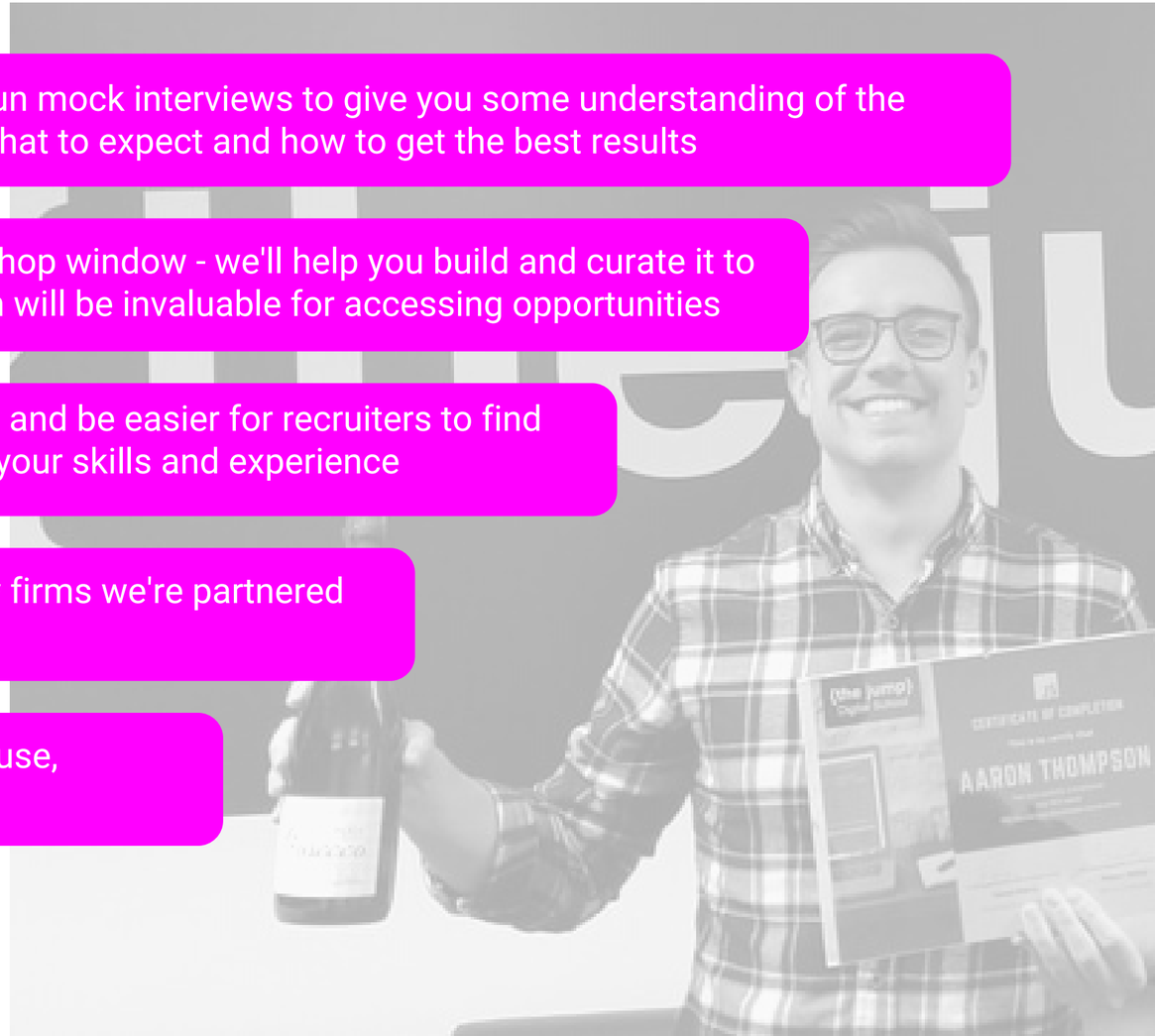
Applying: We'll reformat your CV to stand out and be easier for recruiters to find you, see your value quickly and demonstrate your skills and experience

02

Networks and roles: We'll introduce you to our alumni, any firms we're partnered with and share opportunities that are shared with us

01

Job Search: Learn where to look for opportunities, what job boards to use, recruiters to connect with and how to interpret job specs



Testimonials

We know our programme works but don't just take our word for it! Here's what some of our happy grads had to say after they made the jump!

Sam

The best investment I've made to advance my professional career. Unlike other well-known coding bootcamps, the programme does not teach outdated frameworks and languages that are no longer in demand.

Hannah

An in-depth course at half the cost with the best aftercare! The Jump was a great compromise for me as I wanted structured learning and hands-on support but couldn't commit to full-time. This level of support cannot be found anywhere else!

Aaron

The Jump has been life-changing for me. Just one month into their bootcamp I was able to start interviewing for roles that I was originally planning on interviewing for in a year's time. I couldn't believe it but thanks to what I had learnt so far, I got the job!

Jessie

I loved my experience at the Jump. I found that everyone was incredibly supportive and had a lot of time for me. Within a couple months I had a multiple job offers. I definitely couldn't have got the job I ended up with without the Jump. I would recommend arranging a call with Rob.

Ian

The course has been a revelation for me. The curriculum is thorough, up to date and focused on technologies that are being used in the marketplace today. Genuinely feels like they actually care about your next steps. When you compare the cost of this to other bootcamps, it's an absolute steal.

Grazell

I'll start by saying that I would 100% recommend The Jump to anyone who wants to get into web development, the content of the course is top-notch! Within 2 weeks of firing out applications, I landed my first role as a Junior Full-Stack Engineer I can't imagine being able to do that successfully, within that timeframe, without The Jump.

[Read more testimonials]

Bootcamp fees

Part-time*

£4,999

Payable over **16 weeks** if you are paying the fees directly without 3rd party financing

£1,000 deposit up to 2 weeks prior to start date followed by 3 x instalments of £1,333 payable on weeks 3, 8 & 13

*We don't currently run the JavaScript Bootcamp on a full-time basis

Financing

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If our instalment plan doesn't quite work for you, we're also partnered with 2 different 3rd-party finance firms who've helped a number of our students spread their payments.

Lendwise

Loans repayable up to 4 years. Costs ~ £107 per month. Click their logo to start the process.

Knoma

Interest free loans over 12 months. Costs ~ £416 per month. Click their logo to start the process.

Both firms have confirmed that they use soft credit checks to assess your eligibility for a loan, so if you are **NOT** eligible, it won't affect your credit rating

Why choose us?

{the jump}

We get it. There are tons of bootcamps to choose from, so how are we different?

Personalised support

We cap our class sizes at 15 students, so that we can give you the personalised support you need. Some schools run cohorts of 50+ students where it's easy to get left behind and feel like just a number. As a family-run school, we make sure that doesn't happen!

Commercially relevant

Many schools teach Ruby. We don't, we teach you JavaScript because there are ~6 times more jobs for JavaScript Developers than Ruby Developers. We focus your learning on what the market wants you to know now, not 5+ years ago.

More in-depth learning

Learning 2 languages may seem like a good idea, but it's not! You'll start mixing them up, and doubling the number of languages means halving the amount of time you'll spend on each one! It's better to be really good at one language than average at two.

Experienced instructors

Some schools use their recent graduates as instructors for the next cohort, whereas all our instructors have 15+ years of software development experience. They intuitively know the tech and offer wisdom that a junior developer won't have acquired yet.

As accessible as possible

We offer both part-time and full-time training to suit your needs; We price the training at a discount to the rest of the market; We run the training remotely so you can learn from anywhere; We record every session; We give you whatever support you need.

Contact us to apply

If you'd like to find out more about us, the JavaScript bootcamp or our other bootcamp types, then we'd love to hear from you!

Our application process is really simple (don't worry, there’s no tech test or anything arbitrary like that). Just a phone conversation to get to know you and what you are hoping to get out of the bootcamp, so that we can help you choose the right option.

Call us

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(+44) 7786 094 990 (Robert's Mobile)

Email us

info@thejump.tech

Visit us

https://www.thejump.tech/

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We're a sociable bunch! Click the links below to follow our social media pages!

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