Michael Wood

Full Stack Software Engineer – Node.js, React, Next.js, PHP, AWS

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About Me

I'm a Full Stack Software Engineer at StuRents, where I build scalable REST APIs and intuitive user interfaces using technologies such as Node.js, React, Redux, Jest, Tailwind CSS, PHP, AWS Lambda, MySQL, and DynamoDB.

I work using Agile methodologies and Test-Driven Development (TDD), writing both unit and end-to-end tests to ensure reliable, maintainable code. I have a strong interest in cloud computing and hold an AWS Cloud Practitioner certification. Currently, I am focused on improving my engineering processes and exploring how to best leverage AI tooling in day-to-day development.

You can see examples of my work on my Portfolio, my GitHub, or through my recent posts here on LinkedIn.

Before transitioning into software development, I studied Business Management and Accounting & Finance at Nottingham Trent University. I also gained strong teamwork and interpersonal skills during my time in Commercial Sales at The Roe Group.

Technical Skills

JavaScript • TypeScript • Node.js • React.js • Next.js • AWS • Redux.js • HTML, CSS & Vanilla JavaScript • Tailwind CSS • Express • AWS Lambda • S3 • Serverless Framework • CloudFormation • ES6 • OOP • PHP • Symphony • Guzzle • NOSQL (DynamoDB / MongoDB) • SQL (MySQL / PostgreSQL) • ORMs (Doctrine, Mongoose) • Python • Unit & Integration Testing (Jest, Cypress, Pytest, PHP Unit, Codeception) • Acceptance testing • Git & GitHub • TTD • REST APIs • OpenAPI • Agile Methodology • Figma • Jira • Open API • jQuery • Twig • Datadog • CI/CD • Sentry

Career Summary

Full–Stack Software Engineer | StuRents | Hybrid   March 2025-Current
- Built efficient AWS lambda functions using Node.js to fetch, validate (using Zod) and handle listings data from external providers APIs into a format suitable for our own external API. Removing the need for external providers to manually update their listings.
- Refactored slow and wrote new, optimised SQL queries, while migrating non-relational data to DynamoDB to reduce load on our MySQL database and improve site performance as we scale to more users.
- Met product deadlines while taking end to end ownership of projects such as improving our property search algorithm to display properties better matched to what customers are looking for while also distributing views in a way that better aligns with the business needs and improving P95 page loads speeds by 15%.
- Built easy to use Internal tooling / dashboards to help our customer success team better serve our clients and to help take manual database update work away from the engineering team.
- Consistently adding clear logging / monitoring using Sentry and Datadog and both Unit / Integration testing (Jest, Codeception) to completed work to prevent regression and increase the visibility of errors.
- Worked in an AGILE/SCRUM environment with established CI/CD pipelines, ensuring code is thoroughly tested, reviewed, and seamlessly deployed to production.
- Utilised my strong communication skills from my sales background to integrate will with other engineers and clearly communicate my progress on projects to non-technical people and set out clear expectations to stakeholders.

Commercial Sales | Roe Bros and Co Ltd | Hybrid   Jul 2021 - Mar 2023
- One of the top salespeople for a steel reinforcement stockholder working in a team to deliver B2B goods and solve problems for clients. Managed supply for some of UK's largest infrastructure projects, including HS2 and the 3rd crossing at Great Yarmouth.
- Highly self-driven working to consistently bring in new customers to the business and grow revenue through networking, cold calling and attending construction conferences.
- Able to quickly build rapport and trust with clients through strong communication while working in a fast-paced sales environment and an ever-changing market.
- Managing client accounts and supply chains with values of over £1.5m per year ensuring they were kept informed and up to date with order lead times and best practices to keep their projects running.

Projects

Title	Description	Tech Stack
StuRents Xmas GitHub Live Website To login email - xmas@sturents.com Password – Party	To make my life easier when running the companies Xmas social, I made a very quick with help from an LLM app to give everyone all the information they needed about the day. Another pro of this was I got to try out Supabase for the first time. Then deployed it on Vercel for everyone to use.	**Next.js, Supabase Auth and Database, Postgres, Vercel, GitHub, TailwindCSS, GitHub CoPilot**
Mgmwood.com GitHub Repository Live Website	A portfolio built using Next.js, TypeScript and TailwindCSS. Functionality includes an Image Gallery, Contact Me form which sends an email and a Projects Carousel to show off what I've been working on.	**TypeScript, Next.js, MongoDB Atlas, Node.js, Tailwind CSS, GitHub, google ReCAPTCHA, React, Vercel**
DevFlow GitHub Repository	A Scalable Stack Overflow clone build using Next.js, TypeScript, Tailwind CSS and MongoDB. Functionality includes login/logout using OAuth authentication. A markdown code editor built into the UI, Custom Error and Fetch handlers. App uses both Serverless and standard API routes.	**TypeScript, Next.js, MongoDB Atlas, Tailwind CSS, Mongoose, GitHub, OAuth, Next-Auth, React-Hook-Form, Es-lint, Prettier**

Education

Business Management & Accounting and Finance | BA Hons
– Nottingham Trent University (Sept 2019 - June 2023)
- Grade 2.1

Makers Academy – Software Engineering Bootcamp
- 16 Week intensive bootcamp learning the fundamentals of software engineering, emotional intelligence, feedback and AGILE methodologies

AWS Certified Cloud Practitioner
– Credential ID: bf8d2722360a45608f3262fb2e58ef84

A Levels
– Arthur Mellows Village College
- Mathematics B, Economics B, Geography C

Other Interests

– Keen Golfer with a scratch handicap.
– Cycled Lands' End to John O Groats on three occasions raising over £5000 for Save the Children and Crohn's & Colitis UK.
– Volunteered as a Maths Tutor as part of completing my Bronze, Silver and Gold Duke of Edinburgh awards.
– Run 4 half marathons.
– Avid Manchester United Supporter.