

Michael Wood

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

mgmwood.com | mgwood22@sky.com | [Linkedin.com/in/Mike-Wood22](https://www.linkedin.com/in/Mike-Wood22) |

<https://github.com/Mike-W00d> | (+44) 07930 215500 | London, GB

About Me

I'm a Full Stack Software Engineer at StuRents, where I build scalable APIs and user-focused applications using Node.js, React, PHP, and AWS.

I love building across the full stack, whether that's designing and developing new features from scratch, improving existing systems, or debugging complex technical problems. I take ownership of my work and pride myself on writing clean, maintainable code that delivers real impact and a great user experience.

I'm particularly interested in cloud computing and how to best use AI in software engineering. You can see examples of my work on my [Portfolio](#), my [GitHub](#), or read about my views on engineering through my [Blog](#).

Before transitioning into engineering, I studied business management and accounting and finance at university and worked in B2B sales.

Technical Skills

Languages: JavaScript, TypeScript, Python, PHP

Frontend: React, Next.js, Redux, Tailwind CSS, jQuery, Vanilla CSS

Backend: Node.js, Express, REST APIs, Symfony, PHP, Object-Orientated Programming

Cloud & DevOps: AWS - Lambda, S3, EventBridge, SQS, SES, Serverless Framework, CI/CD

Databases: SQL - MySQL, PostgreSQL, NoSQL - DynamoDB, MongoDB, ORMs - Mongoose, Doctrine

Testing: Jest, Cypress, Codeception, PHPUnit, Pytest

Tools: Git, GitHub, Jira, Datadog, Sentry, Figma, Claude Code

System Design: Domain Driven Design, Serverless Architecture, Event Driven Architecture

Career Summary

Full-Stack Software Engineer | StuRents | Hybrid

March 2025-Present

- **Designing and building systems using AWS Lambda (Node.js)**, including integrations with external customer APIs that periodically fetch listing data, validate it, and map it to internal entities using keys stored in DynamoDB. This automated a slow manual process and provides a consistent feed of up-to-date pricing data for StuRents Intelligence.
- **Leading the implementation and optimisation of AI tooling** across the engineering team, exploring different setup options with custom rules and skills, and co building a custom StuRents MCP server alongside a colleague.
- **Improving site performance and reliability** by refactoring slow SQL queries, optimising database table design, and distributing load across infrastructure. As part of this, migrated the landlord chat system to use aggregate tables in DynamoDB to fetch new messages, reducing the query from the 2nd to the 10th highest load operation on the MySQL (RDS) database.
- **Collaborating with the product team to deliver against stakeholder deadlines**, while taking end-to-end ownership of projects such as improving the property search algorithm to better match user intent and distribute views in line with business needs, increasing P95 page load performance by 15%.
- **Building internal tools and dashboards using React** to enable the customer success team to better support clients and reduce the need for manual database updates by the engineering team.
- **Implementing logging, monitoring, and testing across projects** using tools such as Sentry, Datadog, and unit/integration tests (Jest, Codeception), ensuring systems handle errors gracefully, preventing unseen regressions, and improving system visibility to reduce downtime.
- **Working within an Agile/Scrum environment**, contributing to an established CI/CD pipeline to ensure code is thoroughly tested, reviewed, and seamlessly deployed to production.
- **Continuously improving both technical and soft skills**, leveraging strong communication from previous sales experience to integrate effectively with peers, clearly communicate progress to non-technical stakeholders, and set realistic expectations.

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 small sales team to manage **B2B relationships** and solve supply chain problems for clients. This included managing 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.
- Directly managing client accounts with values of over **£1.5m per year** ensuring they were kept informed and up to date with order lead times and advising them on best practices to keep their projects running on time.

Projects

Title	Description	Tech Stack
FpITablePro.com GitHub Live Website	A web application built to be an extension of FPL game giving users better stats and tables than on the native version, using the FPL public API. Currently has over 50 different users signed up.	TypeScript, React, Nextjs, PostgreSQL, Supabase, Tailwind CSS, Claude Code, Vercel Cron Jobs
Mgmwood.com GitHub Live Website	My portfolio website which I use to display my work / learning through my engineering blog – Sub Par Engineering. Other features include a gallery and admin setup for content management and integration with Anthropic’s AI developer API	TypeScript, Nextjs, NoSQL (MongoDB Atlas), ORM – Mongoose, Clerk Tailwind CSS, Cloudinary, Claude Code Developer API
StuRents Xmas GitHub Live Website	To make my life easier when running the companies Christmas social I built a very quick app, with help from an LLM. It gives everyone all the information they needed about the day. To login email - xmas@sturents.com Password – Party	Next.js, Supabase Auth and Database, Postgres, Vercel, GitHub, Tailwind CSS, GitHub CoPilot, React.

Education

Business Management & Accounting and Finance | BA Hons

- Nottingham Trent University (Sept 2019 - June 2023)
- Grade 2.1

Makers Academy – Software Engineering Bootcamp

- Highly selective 16 Week bootcamp and training partner for companies such as Apple, Google and Palantir. I learned the fundamentals of software engineering, emotional intelligence, feedback and how to work using AGILE methodologies.

AWS Certified Cloud Practitioner

- Credential ID: bf8d2722360a45608f3262fb2e58ef84

A Levels

- Mathematics, Economics, Geography

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.
- I enjoy my fitness. I am an F45 addict have run 4 half marathons and completed 1 Hyrox.
- Avid Manchester United Supporter.
- Qualified Skiing Instructor.