

MATTHEW BELL

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PROFILE

A driven, resilient software engineering student at Newcastle University with a passion for coding and camping. Having successfully completed two summer internships, gaining a solid foundation in the Financial Services and Technology industry whilst developing knowledge and softer skills within the development and architecture space.

As I begin the third year of a Software Engineering Course, I'm focussed on further developing my problem-solving, coding and collaborative skills through hackathons, personal projects and focussed learning whilst continuing to challenge myself and explore new technologies.

EDUCATION

Kenton Sixth Form | Newcastle Upon Tyne, UK

Sep 2020 - Jun 2022

A-Levels

Key Subjects: Mathematics (B), Computer Science (B), Physics (C)

Newcastle University | Newcastle Upon Tyne, UK

Sep 2022 - Present

BSc Software Engineering (2:1 Expected, June 2025)

Key Modules: Algorithm Design and Analysis, Software Systems and Design, Database Design

Intern Experience

Zebra Technologies | Newcastle, UK

Mar 2023 – May 2023

Software Engineering Virtual Intern

A market leading technology manufacturer, working fully remote.

- Collaborated with a small online intern team to fulfil a client request for an app optimising employee workflow. Developed a solution featuring a list of tasks with deadlines for enhanced task management efficiency using Flutter.
- Personally, suggested a robust development methodology, combining atomic design principles with a Waterfall approach, to ensure efficient and scalable app development, leading to a 1-week reduction in development time when compared against other groups.
- Lead the GUI design approach with using Figma which further helped the atomic design system approach we took as it allowed for a in depth break down of each component as well as being easily changeable allowing for further refinement and iterations of the websites GUI design

Atom Bank | Durham, UK

Jun 2024 – Aug 2024

Enterprise Architect Summer Intern

A Fintech based in the Northeast, working in an office environment.

- Gained practical experience in applying enterprise architecture frameworks like TOGAF and CSVLOD within a fast-paced startup environment, understanding how these methodologies drive efficiency and scalability in a rapidly evolving business.

- Learned front-end technologies, including React, JavaScript, Python and Astro, to develop a company prototype AI Companion project that utilised REST Api & Python with Google Cloud Run and Big Query, showcasing my ability to leverage cloud-based services for data-driven solutions.
- Collaborated with other interns to develop and present a data-driven improvement proposal to the Executive Committee and CEO of Atom Bank, enhancing my analytical, problem-solving, and public speaking skills.

Work Experience

Ikea | Gateshead, UK

Nov 2022 – Jun 2024

Sales Assistant & Kitchen Designer

A global furniture retailer, working on site in a fast-paced retail environment.

- During my tenure at Ikea, I immersed myself with in-house software applications, leveraging them to enhance the overall customer experience. This deep understanding not only enabled me to provide near-flawless service as a sales assistant but also empowered me to go above and beyond in ensuring customer satisfaction.
- A notable accomplishment involved assisting management in obtaining and analysing customer flows to identify product hotspots. Utilizing this data, we strategically boosted the visibility of lower-popularity but higher-profit-margin items, resulting in a 135% increase in sales for a specific product.
- Additionally, over 1 year and 7 months of working at Ikea I was able to generate over £250k of self-driven sales through designing and implementing effective sales tactics and strategies.

Personal Projects

Health Tracking Website:

Created in a University team, to contribute towards a United Nation goal.

- Developed a full-stack web application using Python, Flask, HTML, and CSS, enabling users to track and manage their health documents & data in real time.
- Integrated Firebase for secure, real time and scalable data storage, along with OAuth for user authentication, ensuring user data privacy and accessibility.
- Implemented automated testing with Pytest and set up a CI/CD pipeline, improving code quality and streamlining the deployment process throughout development.

Personal Portfolio (<https://swe-matthew.com/>):

- Created a Responsive website using Vue.JS using a component-based architecture and state management for reusable and scalable code.
- Created an intuitive and visually appealing user interface using Figma allowing for quick and easy design changes. And HTML & CSS for implementation, ensuring a cohesive and engaging user experience.
- Deployed the website using GitHub Pages and Netlify, gaining hands-on experience with version control, continuous deployment, and static site hosting.

ADDITIONAL INFORMATION

Technical Skills:

- **Programming Languages:** Python, C#, JavaScript
- **Software Dev:** Experience in end-to-end development, collaborative coding, and problem-solving
- **Tools:** Visual Studio, IntelliJ, PyCharm, Google Cloud Run
- **Web Development:** HTML, CSS, Tailwind, React, Vue, JavaScript, Astro
- **Backend Development:** Python, JavaScript, REST API, Firebase
- **Version Control:** Git, Gitlab

IT Skills:

- **Microsoft Office Suite:** Word, Excel, PowerPoint
- **Graphic Design:** Adobe Photoshop, Lightroom, Figma, Lucid Chart
- **3D Modelling:** Blender, Spline

Interests and Hobbies

I'm passionate about coding and love spending time in nature. Whether I'm building software or hiking through trails, I enjoy the challenges and rewards each brings. I find peace in the quiet of a campsite and satisfaction in creating something new.

References: Available on request