Alex Ferguson

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Profile

I am an adaptable and competent full stack software engineer looking to apply my skillset to a new challenge. I enjoy tackling complex problems within an agile team; with a track record of delivering high quality software solutions. I'm committed to continually develop my skills and utilising my experience to mentor and lead teams as I take on a senior engineer role.

Key Skills

- Proficient in Python, TypeScript, JavaScript, CSS, HTML
- Competent in SQL, AWS, Docker, NodeJS
- Comfortable working in a fast-paced environment and on projects with evolving and ambiguous requirements
- Able to mentor junior engineers and liaise and communicate with a variety of stakeholders
- Adaptable and willing to explore programming languages, frameworks and solutions

Previous Employment

Software Engineer, Veygo, Cardiff   *August 2022 – present*

- Developing a variety of front and backend systems for temporary car insurance using Python, Django, React and AWS
- Took a leading technical role within a product-focused squad responsible for delivering on the company's subscription proposition – dealing with frequently changing and ambiguous business requirements and working alongside a variety of departments to deliver high value enhancements and features
- Took a key role in selecting, procuring and implementing the next generation fraud prevention system
  - Researched and presented the case for procuring a system and ensured all relevant stakeholders were onboard with the decision
  - Led the design and implementation of the system
- Mentored junior developers across the engineering team, including onboarding and bringing them up to speed on processes and systems, and providing ongoing support to help them to develop their skills
- Took opportunities to improve business processes such as streamlining the process for customer care agents to refer issues to the engineering squads

Associate Software Engineer, Aforza, Cardiff   *July 2021 – August 2022*

- Developing REST APIs and backend systems for the consumer goods industry using NodeJS, Docker, Kubernetes, and TypeScript with frameworks such as NestJS
- Utilising Git and Jira to plan and review development work
- Comfortably worked in a Scrum development environment
- Developed a deeper knowledge of working in a fast-paced and constantly evolving start-up/scale-up corporate environment, relishing the opportunities to learn and grow my skillset in new areas
- Gained confidence to take the lead on complex and time-consuming development tasks, and to ask for help and advice when needed

Scientific Software Engineer Placement, Met Office, Exeter *July 2019 – July 2020*
- Developing post-processing software using weather model data, SciPy and Python 3
- Utilising version control, ticketing, and documentation systems to effectively plan, complete and review development work
- Developed understanding of testing methodology by reviewing pull requests, writing, and running acceptance and unit tests and nightly testing of master branch
- Gained greater insight into agile methodology by working in both a Scrum and Kanban development environment

Web Developer, Robot Mascot Ltd., Norwich *November 2017 – February 2019*
- Developing bespoke websites for clients in PHP, JavaScript, and HTML
- Utilising a dedicated Linux server
- Maintaining and setting up Linux servers
- Developing WordPress websites for clients, utilising the Avada framework and using CSS and JavaScript
- Worked on projects alone and as part of a team, developing communication skills to work effectively as part of a team

Education & Qualifications

University of East Anglia, Norwich, Norfolk *2017 – 2021*
BSc Computing Science (with Year in Industry)
- Classification: First (4.5 GPA)
- **Year 1** – Weighted Average 88% - First Class in all modules
  - Completed modules: Computing Principles, Database Systems, Mathematics for Computing B, Programming 1 (Java), Systems Development, Web-based Programming (Python)
- **Year 2** – Weighted Average 81% - First Class in all modules
  - Completed modules: Analogue & Digital Electronics, Architectures and Operating Systems (Assembly, C), Data Structures & Algorithms, Networks, Programming 2 (C, C++), Software Engineering (Python, Agile Methodology)
- **Year 3** – Weighted Average 76% - First Class in all modules
  - Completed modules: Introduction to Cyber Security, Artificial Intelligence (Python), Developing Secure Software, Machine Learning (Java, Weka)
  - Final year project: Text weather forecast generation using machine learning (Python)

saltash.net Community School, Saltash, Cornwall *2010 – 2017*
- A Level – Business (A), Mathematics (A), Physics (A)
- AS Level – Chemistry (B)
- GCSEs – 8 A*, 2 A including Mathematics (A*), Sciences (3 A*) and English Language (A*)