Zak Farrow

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SUMMARY

I am an experienced engineer, with extensive experience crafting highly polished applications. I specialise in React, and Python, but have practical experience developing with a variety of technologies. I am a strong advocate of maximising the developer experience within teams, and 'lead-by-example' with regards to producing robust, easily maintainable code. With a solid academic background in Mathematics and Computer Science, I can effortlessly integrate into teams of varying sizes and abilities. I have experience working with a variety of languages and technologies, including Python (Django, PyTorch, TensorFlow), Java, C++, PHP (Laravel), JavaScript/TypeScript, Node.js, React, React Native, Tailwind, SQL, MySQL, Git, Google App Engine.

EXPERIENCE

Junior Web Developer

Aircharge   October 2023 - Present, Wantage, Oxfordshire

- Independently developed a React Native / Node.js application, as part of a new project for the hospitality industry, which successfully reached pilot stage.
- Enhanced content management system with modular customisability, and improved UX by reducing client-side load, which optimised initial page load time by ~200ms.
- Enhanced developer experience by introducing Git version control, Docker-based local development environments, and automated deployment pipelines with Github actions.
- Built an internal, mobile app management tool with custom routing and templating engine.
- Developed a feedback application which increased review submissions by 34% in the first month of deployment for a client.
- Developed a dashboard using React and D3.js, enhancing the data visualization for monthly reports and decreasing analysis time by 30%.

EDUCATION

BSc (Hons) Mathematics and Computer Science

University of Liverpool · 2019 - 2023

- Implemented algorithm to defend machine learning model against adversarial data in a final year module which scored 100% in assessment.
- Achieved an average of 66.25% in final year computer science modules.
- Completed coursework as part of a graph theory module in final year which scored 92% in assessment.

EXTRA-CURRICULAR

Head of External Relations

University of Liverpool · University of Liverpool Banking and Finance student society

- Established new connections with prospective partners, leading to 3 keynote events with finance professionals which provided valuable insights into the industry.

Volunteer Tutor

Liverpool · IntoUniversity charity

- Collaborated with underprivileged students to facilitate access to elite higher education institutions.
- Devised a strategy to expand one student's academic pursuits beyond the standard curriculum.

SKILLS

Backend: Python (Django, PyTorch, TensorFlow), Java, C++, PHP (Laravel)

Frontend: JavaScript/TypeScript, Node.js, React, React Native, Tailwind

Data: SQL, MySQL

Dev Ops: Git, Docker, Github Actions

Cloud: Google App Engine