Thomas **Richmond**

SOFTWARE ENGINEER

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Education

University of Wollongong   *Wollongong, NSW, Australia*

BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING)   *Feb 2019 - Jul 2023*

Professional Experience

AlphaLoops   *London, United Kingdom*

FOUNDING ENGINEER   *Jul 2024 - Present*

- First engineering hire, shaping engineering culture and product direction while collaborating closely with the founding team and occasionally mentoring/leading other engineers.
- Responsible for full-stack product development (Next.js, FastAPI, Postgres, Azure), optimising the codebase for shipping speed and reliability, as the product grew from MVP to 30+ corporate customers and >£100k in revenue.
- Designed, architected, and delivered core features end-to-end, directly translating customer needs into product requirements with full ownership of delivery.
- Built internal and customer-facing AI agent features using OpenAI LLMs and agent frameworks, showcased through live demos that boosted customer retention and clarified product priorities.

Deloitte Digital   *Canberra, Australia*

SOFTWARE ENGINEER   *Mar 2023 - Jul 2024*

- Built a business-critical fundraising payment system processing £50M annually (React, Next.js, Stripe, Vercel). Integrated Datadog and Mulesoft for logging and tracking.
- Delivered features and fixed critical bugs across multi-site codebase. Authored Confluence docs and led CMS training workshops for clients.
- Mentored interns through code reviews, training, and project guidance, improving delivery quality and alignment.

University of Wollongong   *Wollongong, Australia*

IT SERVICE DESK OFFICER   *Mar 2019 - Oct 2020*

- Provided First Level IT Support for all staff, students and related businesses at UOW.
- Streamlined team collaboration and problem-solving by implementing a knowledge-sharing platform, resulting in a 29% increase in ticket completion.
- Provided On-Site technical support for all hardware and software related issues for end user compute.

Projects

EasyTipping

REACT NATIVE, GOOGLE CLOUD FUNCTIONS, FIRESTORE, EXPO, STYLED COMPONENTS – GITHUB LINK

- Multi-sport tipping application that takes the hassle out of social sports tipping.
- Realtime pub/sub task scheduler built in Google Cloud Functions.
- 3rd party API integrations for real time match data using Axios.

Fresh Beer Near Me

BINARY BEER AND UOW – REACT NATIVE, EXPRESS, MONGODB, HEROKU, EXPO

- Collaborated with university team to build cross platform mobile application that displays what beers a venue has on tap, and how fresh each beer is, using IoT tracking technology.
- Created REST API in Express.js to serve IoT data to client and deployed to Heroku.
- Integrated automatic database updates using MongoDB Atlas

Skills

LANGUAGES

- Typescript, Python, SQL, HTML

FRAMEWORKS AND LIBRARIES

- React, Next.js, FastAPI, TailwindCSS, Postgresql, React Native, React Query, Node.js, SASS

TOOLS

- Git, Postman, Cursor, Figma, Vercel, Sentry, Azure, Heroku, Firebase