Elliott King

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Highly motivated software developer with experience in full-stack development, seeking to leverage my expertise in engineering, design and problem-solving to contribute to a team focused on building creative and innovative software solutions.

Technical Profile

As a highly motivated and versatile software developer, I'm skilled in various programming languages, but prioritise **Python**, **TypeScript**, and **Go**, with familiarity in **C/C++**. I'm comfortable in both frontend and backend development, from static **HTML+CSS** sites to full stack **NextJS** apps and custom architectures.

Focused on creating exceptional user experiences through **progressive web apps**, I use modern web technologies for app-like features and native-like performance. My preferred stack includes **Vite**, **TypeScript**, **React**, and **Redux** for crafting responsive interfaces, emphasizing web performance techniques like lazy-loading, minification, and code splitting.

On the backend, I employ **Python** or **Go** to build robust microservices, implementing secure authentication using **JWTs** and **OAuth2**. I'm experienced with **relational and document databases**, integrating them with **REST APIs**. To ensure project reliability, I utilize **Jest** for unit testing, **Cypress** for end-to-end testing, and increasingly use **Storybook** for component development.

For streamlined deployment and scaling, I leverage **Docker** and manage applications on **Google Cloud**. To facilitate collaboration and automation, I rely on **Git** and **Github Actions** for version control and **CI/CD**. Comfortable working in **Linux** and **Windows** environments, I'm confident in delivering high-quality software solutions that exceed expectations.

Current Role

Full-Stack Developer – Rho Technologies Ltd   *July 2021 - present*

As the founder and lead developer at Rho Technologies, I launched a flagship product, Persistence, a health and fitness progressive web app. Persistence offers an interactive calendar and session planner, personalized dashboard, and "Insights" feature for data-driven insights based on users' performance data, session tags and ratings. Users can integrate with Strava and Garmin for historical data and device syncing.

Working independently, I manage the full lifecycle of product development, from ideation and planning to implementation and maintenance. This involves overseeing the architecture of the application, thinking deeply about the user experience, implementing best practices for optimal performance and secure authentication, while strategically allocating time to each aspect.

In my journey with Persistence, I have grown the project from a Matlab script analysing watch data I wrote in university, to static HTML, to a responsive progressive web app. As the project's complexity increased, I evolved the architecture and embraced new tools and technologies, learning on the job to take the project to each new level.

This process required extensive research, planning, iterative development, and effective utilization of my increasingly diverse skill set. Consequently, I have continually improved user experience across devices and platforms, striving to deliver a quality product that meets user expectations and the high standards I set myself.

Education

Master of Science in Sports Engineering (Distinction)   *Sheffield Hallam University – June 2018*

Bachelor of Engineering in Sports Technology (First)   *Sheffield Hallam University – June 2017*