Alexander Heather *Full Stack Developer*

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Skills

JavaScript ● TypeScript ● Python ● Go ● Dart ● Flutter ● Kubernetes ● Electron.js ● React.js ● Next.js

MongoDB ● SQL ● AngularJS ● TailwindCSS ● Node.js ● ExpressJS ● Koa.js ● PostgreSQL ● Web Development

Mobile Development ● Android Development ● Responsive Web Design ● Teamwork ● Problem Solving ● Git

ELK Stack ● Fluentd ● Prometheus ● MinIO ● Svelte ● SvelteKit ● Figma ● gRPC

Profile

I am a versatile full-stack developer with expertise in React.js, Next.js, Angular.js, and SvelteKit. I have hands-on experience deploying mobile applications utilising the Flutter framework. Additionally, I am proficient in developing backends using Golang, Python, and Express.js, and I am well-versed in working with databases such as PostgreSQL and MongoDB. Also I have advanced knowledge of deploying applications using Kubernetes.

Professional Experience

DevOps Engineer, Mobile Developer, Backend Developer, Full Stack Developer, Eros AI
2022 – present | London

- Eros AI represents one of my notable projects being an android/ios application engineered to generate high-quality AI-generated images through the application of stable diffusion technology.
- Employing a microservices architecture, I meticulously designed the application for seamless scalability, integrating Kubernetes to ensure optimal performance and resource management.
- To facilitate efficient log and metrics collection, I incorporated cutting-edge technologies such as Fluentd and Prometheus, thereby enhancing the application's overall monitoring capabilities.
- The development showcases my proficiency in multiple programming languages, including Dart (utilising the Flutter framework), Golang (implemented with Gofiber), and Python.
- I take pride in delivering not just a mobile application but a comprehensive solution that is robust, versatile, and significantly enhances user experiences.

Software Engineer, Kronos
2023 – 2023 | London

- Developed a browser employing a combination of Electron.js with React.js. Utilised inter-process communication to connect the ipcRenderer to the ipcMain.
- Utilised Golang, MongoDB, and Kubernetes to create and deploy the syncing service responsible for managing users in the browser.
- Successfully achieved demanding deadlines through efficient timeline management.

Full Stack Developer, CH Interiors
2024 – 2024 | London

- Created a bespoke website catering to the needs of CH Interiors, a prominent player in the field of interior design, employing cutting-edge technologies including Next.js and Tailwind CSS for frontend development.
- Seamlessly integrated Golang as the backend framework, ensuring robust functionality and efficient data management.
- Enhanced security and performance through the implementation of Cloudflare for advanced analytics and DDoS mitigation, while leveraging the scalability of Kubernetes for deploying the website on a personally managed physical server infrastructure.

Full Stack Developer, CourseCord
2023 – present | London

- Collaborated within a 4-member team, overseeing the entire lifecycle of our full-stack application.
- Established a backend stack incorporating Prisma for database management, MongoDB for data storage, TypeScript for robust type checking, and Jest for thorough unit testing.
- Adopted Next.js (v14) for optimal performance and maintainability. Employed Tailwind CSS for frontend design and integrated Cypress for end-to-end testing, ensuring application reliability and performance enhancements for an elevated user experience.
- Implemented NextAuth for seamless user authentication, developing both frontend and backend components with validation and security measures for a secure OAuth2-based user login process.
- Utilised Redux Toolkit for efficient state management within the application.
- Utilised Git and GitHub for streamlined version control and effective code management.

Backend Developer, RentWave
2023 – 2023 | London

- Translated the codebase from JavaScript to TypeScript, resulting in improved readability and maintainability.

- Introduced Prisma as the Object-Relational Mapping (ORM) solution.
- Shifted from PostgreSQL to MongoDB for enhanced scalability and greater flexibility.
- Integrated testing using Jest and Supertest for E2E testing the Express.js API routes.

Talon Outdoor Limited   07/2023 | London
Internship 🔗
I had the opportunity to work in a professional setting alongside other web developers, where my main focus was on developing a NextJS web application. During my time at Talon, I was able to contribute several new features and resolve numerous bugs. Working alongside a highly skilled team of individuals, I had the privilege of learning from their expertise and gaining valuable insights.

Software Engineer, Hyperion   07/2022 - 11/2022 | London
- Hyperion, a project I independently developed, was a program designed to automatically produce educational YouTube videos. This encompassed generating the voice, script, and visuals.
- Utilising the Tortoise TTS library, Hyperion generated the voice for the videos. The script was crafted using GPT-3 Davinci, and visuals were automatically sourced from Pexels, tailored to match the generated script.
- Additionally, I successfully implemented automation within Hyperion, enabling it to autonomously run and upload videos without the need for manual intervention.

Education

Codeworks   2023 | London
Software Engineering
A 12-week intensive course that ran for six days a week, from 8 am to 8 pm.

Brampton College (IGCSEs)   06/2022 | London
Biology 6, Chemistry 7, Computer Science 8, English Language 6, Mathematics 7, Physics 8