

Summary

Software Engineer with over 2 years of experience in developing scalable, high-performance applications. **Expertise in JavaScript, TypeScript, Python, React, and Flask**, with a proven track record of building robust backend services and dynamic frontend interfaces. Led projects that **improved application performance** and collaborated with cross-functional teams to **deliver products ahead of schedule**. Passionate about creating efficient code and innovative solutions in both startup and research-driven environments.

Skills

Languages: JavaScript (ES5, ES6, ES7) | TypeScript | Python | HTML | CSS | SQL

Frameworks: React.js | Next.js | Node.js | Flask | PySide6 | VTK | SASS | TailwindCSS

Databases: PostgreSQL | SQLite | MongoDB | SQL Server | MySQL

Tools/DevOps: Git | GitHub | Docker | AWS | Firebase | Azure | RESTful APIs | Agile/Scrum methodologies

Soft Skills: Effective communication | Team leadership | Analytical problem-solving | Organizational skills | Mentorship

Experience

Front End Software Engineer | Ziteo Medical | Mar 2024 – Sept 2024

- Spearheaded the development of a PySide6 and VTK-based UI/UX for a robotic cancer scanning system; through error logging and collaboration with testers, **reduced system errors by 25%, increased successful consecutive scans by 80%**.
- Implemented 15 new UI features**, including a logging and notification system, a global application state, and a VTK-based medical image viewer, which significantly enhanced system functionality and user satisfaction
- Designed a styled component system by customizing core PySide6 components and organizing features into reusable files, which **standardized the application's look and feel, reduced technical debt, and enhanced development efficiency**.

Full Stack Software Engineer Intern | Co.Lab | Nov 2023 – Feb 2024

- Engineered a fully functional mobile app** by developing both frontend and backend components using React Native, Firebase, and Zustand; built a reusable component system and implemented authentication with Firebase Auth.
- Facilitated effective team communication by organizing stand-up meetings every other day and utilizing Jira for sprint planning and task management, which led the engineering team to consistently **meeting and exceeding our goals before our weekly deadlines**.
- Led team collaboration by monitoring project progress, providing support to team members, and **actively participating in code reviews** improving efficiency and contributing to successful project outcomes.

Software Engineer Trainee | Coding Temple | May 2023 – Sept 2023

- Completed an intensive 6-month software engineering bootcamp, learning Python, JavaScript, TypeScript, HTML, and CSS through daily assignments and weekly projects; **recognized by instructors for exceptional problem-solving skills**.
- Leveraged UI development skills acquired with PyQt and Tkinter to contribute effectively in building a PySide6 UI at Ziteo Medical.
- Managed code versioning and team collaboration using Git and GitHub, **implemented best practices** that ensured code stability and streamlined development across multiple team projects.

Projects

Ziteo ZS-2 UI | Front End Software Engineer | Desktop Application for Seamless Robotic Interfacing

The Ziteo ZS-2 UI project involved developing a sophisticated desktop application to serve as the interface for a robotic cancer scanning system. The objective was to enhance the system's usability and reliability by redesigning the user interface and improving overall performance. A significant challenge was integrating PySide6 and VTK libraries to create a responsive UI capable of real-time processing of high-resolution medical images. Implementing a comprehensive error logging and notification system was also critical to reduce system errors by 25% and increase successful consecutive scans by 80%. Overcoming these challenges required close collaboration with robotics engineers and testers, innovative problem-solving, and optimizing the application's architecture to enhance both performance and user experience.

Doumi Mobile App | Full Stack Software Engineer Intern | [Doumi Portfolio](#) | Doumi is a support app for caregivers.

The Doumi mobile app project focused on creating a support platform for caregivers, offering community features and resources to assist them in their daily lives. The objective was to develop a fully functional mobile application with robust user authentication and communication capabilities using React Native and Firebase. A key challenge was integrating Firebase with React Native due to compatibility issues and unclear documentation, which complicated the implementation of authentication and real-time data handling. By meticulously identifying compatible versions and resolving integration issues, we overcome these hurdles. Additionally, optimizing state management using Zustand and designing a reusable component library were essential to enhance app performance and scalability. Despite the challenges, the project culminated in a fully functional app prototype, demonstrating comprehensive full-stack development skills across the database, backend, and frontend.

Education

Software Engineering Certificate | Coding Temple | Aug 2023