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Summary

Full-stack engineer experienced (2+ years) in building **responsive**, **accessible** web applications. I write **clean, modular**, and **well-tested** code that is easy for teams to **understand, extend**, and **integrate**. Seeking software engineering internship for Summer'23

Education

Carnegie Mellon University — Mountain View, CA

Master of Science in Software Engineering; GPA: 4.0/4.0 — *Aug 2022 - Dec 2023*

Courses : Foundations of Software Engineering, Software Verification & Testing, Software Requirements & Interaction Design

NMAM Institute of Technology — Nitte, India

Bachelor of Computer Science; GPA: 9.8/10 (top 1%, Class of 2020) — *Jul 2016 - Apr 2020*

Courses : Data Structures & Algorithms, Object Oriented Modelling & Design, Linear Algebra & Probability Theory

Skills

Languages : Typescript, JavaScript, Python, SQL, HTML5, CSS, GraphQL

Libraries & Frameworks : React, NodeJS, NextJS, Express, Redux, MongoDB, PostgreSQL, Flask, Bootstrap, TailwindCSS

Tools : Figma, Docker, AWS, S3, Postman, VSCode, Git, Miro, Jama

Experience

Team AIBOD Inc. — Fukuoka City, Japan

Software Engineer 2 — *Nov 2021 - Apr 2022*

- Developed 50+ UI components with **React and TypeScript** resulting in a 10% ($\sim$ ¥1.2M) increase in annual revenue.
- Created a **RESTful** payment server with a microservice architecture using **Python, Flask, and PostgreSQL**, expanding the customer base ($\sim$ ¥500K/year) to include BioPay users.
- Containerized and deployed applications using **Docker** and configured **AWS Cloudwatch** for remote monitoring, improving system performance across 15 customer locations.

Software Engineer 1 — *Jul 2020 - Oct 2021*

- Improved data pre-processing rate by 10x (from 20/h to 200/h) by building image annotation tools with **Python.**
- Designed and implemented a Search System using **GraphQL** with **Apollo** and **Ariadne**, streamlining 3 ongoing projects.
- Improved team efficiency and reliability with over 80% code coverage through unit and integration **testing** with **Jest.**

AI Engineer Intern — *Feb 2020 - Jun 2020*

- Fixed 20+ bugs in the API server with **NodeJS and Typescript** and contributed to ongoing full-stack applications.
- Improved the accuracy of a **KNN-supervised classifier** by 7% through **feature engineering**, resulting in more effective classification of products in an unmanned store.
- Fine-tuned and evaluated BERT NLP algorithm using **PyTorch** for Named Entity Recognition and integrated the AI backend and **Express API Server** to provide AI as a Service.

Projects

Kanban Task Manager | *React, TypeScript, Styled-Components, Figma, Git* — *Jun 2022 - Present*

- Developed a highly accessible Kanban Task Manager with pixel-perfect implementation and best practices in **A11y, Semantic HTML, and ARIA labels**, which ensured usability with screen readers such as Apple Voice Over. Generated clear API documentation with **API Blueprint** and **Postman.** Implemented **CRUD Operations** with a **MongoDB** database.

Emergency Social Network | *HTML, CSS, Javascript, MongoDB* — *Aug 2022 - Dec 2022*

- Implemented a robust system architecture, applying **SCRUM** and **Kanban** agile practices to develop the app with a focus on usability. Applied **Object-Oriented Analysis & Design** to lead development efforts and built a highly maintainable, test-driven application that provides **JSON-based RESTful APIs** for the frontend as well as headless clients.

Re:Use | *Figma, Jama, Miro* — *Aug 2022 - Dec 2022*

- Collaborated in a team of 6, to ideate a solution for problems faced by customers and volunteers in the donation industry by conducting user research, generating storyboards with **Miro**, style guides with **Figma** and a Minimum-Viable-Product (MVP) using **React, Typescript and Styled-Components.**

Refriendo | *TypeScript, React, CSS, Figma, Git* — *Oct 2021 - Jul 2022*

- Generated a high-fidelity **Figma** prototype with a clean, visual design aesthetic and conducted think-aloud usability testing surveys to iteratively improve the design, followed by implementation of the mockups using a **Client-Server Architecture** and modern patterns such as **React Hooks** and **Context API.**

Awards & Leadership

Graduate Teaching Assistant : Foundations of Software Engineering at Carnegie Mellon University.

Student Leader : ECE Graduate Organization at Carnegie Mellon University (Among 160 students).

Youth Icon (title) : Won first place in a national public speaking competition among 5000 participants in March 2019.