

Panambur Pawan Bhandarkar

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Education

Carnegie Mellon University

Master of Science in Software Engineering; GPA: 4.0/4.0

Courses : Foundations of Software Engineering, Software Verification & Testing, Software Requirements & Interaction Design
Human-Computer Interaction & User Experience

Mountain View, CA

Aug 2022 - Dec 2023

NMAM Institute of Technology

Bachelor of Computer Science; GPA: 9.8/10 (top 1%, Class of 2020)

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

Nitte, India

Jul 2016 - Apr 2020

Skills

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

Libraries & Frameworks : React, NodeJS, NextJS, Redux, MongoDB, PostgreSQL, MySQL, Express, Flask, Sass

Tools : Figma, Docker, AWS, S3, Postman, VSCode

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% (~ 1.2M) increase in annual revenue.
- Created a **RESTful** payment server with a **microservice architecture** using **Python, Flask, and PostgreSQL**, expanding the customer base (~ ¥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.
- Trained and mentored interns and contract engineers in the company's stack.

Software Engineer 1

Jul 2020 - Oct 2021

- Improved data pre-processing rate by 10x (from 20/h to 200/h) by **building internal tools with Python** for annotating and visualizing images.
- Designed and implemented a **GraphQL search system** with Apollo and Ariadne, streamlining 3 ongoing projects.
- Improved team efficiency and reliability with over 80% code coverage through **unit and integration testing** with **Typescript, Jest, and Supertest**.

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** from 80% to 87% through **feature engineering**.
- **Trained 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.

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 OOA to lead development efforts and built a highly **maintainable, test-driven application** using **JSON-based RESTful APIs**.

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/interviews**, 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 prototype** with a clean, visual design aesthetic and conducted **think-aloud usability testing** surveys to iteratively improve the design, followed by a pixel-perfect implementation of the mockups using modern CSS techniques.

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.