Panambur Pawan Bhandarkar

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SUMMARY

Experienced (2+ years) in building highly responsive, scalable full-stack web application with a UI/UX focus. Currently pursuing MS in Software Engineering at Carnegie Mellon University and seeking Summer'23 Software Engineer internships.

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   *Jul 2016 - Apr 2020*
Courses : Data Structures and Algorithms , Object Oriented Modelling & Design, Linear Algebra & Probability Theory

SKILLS

Languages: NodeJS, TypeScript, Python, ReactJS, Redux, SQL, HTML, CSS, GraphQL, Java, C++
Tools: Git, Figma, Postman, PostgreSQL, Jest, Docker, EJS, Express, Flask, Sass, JUnit, EcmaScript 6, JSON, XML

EXPERIENCE

Team AIBOD Inc.   Fukuoka City, Japan
Software Engineer 2   *Nov 2021 - Dec 2022*
- Increased the annual revenue by **10%**, developing **50+ UI components** for an unmanned store with React and TypeScript.
- Optimized the POS by engineering a RESTful payment server with Flask achieving a **30% increase** in performance.
- Accelerated delivery of customer projects by drafting **Docker** configuration files and setting up **AWS Cloudwatch**.
- Generated user stories, roadmaps for customer projects and **trained** interns, contract engineers in the company's stack.

Team AIBOD Inc.   Fukuoka City, Japan
Software Engineer 1   *July 2020 - Oct 2021*
- Streamlined the end-to-end pipeline for delivering the results of **Human-Object Interactions** to the front-end.
- Pioneered the use of **GraphQL** by engineering a search system with Apollo and Ariadne, later reused in 3 other projects.
- Enabled the team to deploy with confidence by developing test suites with over **80% code coverage** using Jest.

Team AIBOD Inc.   Fukuoka City, Japan
AI Engineer Intern   *Feb 2020 - Jun 2020*
- Increased the accuracy of a KNN supervised classifier **from 80% to 87%** through feature engineering.
- Trained and evaluated an NLP algorithm using BERT for **Named Entity Recognition** and integrated with the AI backend.
- Contributed to ongoing projects by **fixing 20+ bugs** in the API server with NodeJS and Typescript.

PROJECTS

Emergency Social Network | *TypeScript, Express, MongoDB, Postman*   Aug 2022 - Present
- Leading a scrum team of 5 students to develop the app with a focus on **usability, maintainability, and robustness.**
- Planning, scoping, and delegating work using 20+ UML diagrams produced through **Object Oriented Analysis & Design.**
- Mentoring team members through **code reviews** in JavaScript, HTML and CSS to generate test-driven code.
- Designing and integrating a clean, visually aesthetic UI with **JSON-based RESTful APIs**

Testing Apache Commons Text | *Java, JUnit, Mockito*   Oct 2022 - Nov 2022
- Identify **Attributes, Characteristics and Input Space Models** for testing an open source project.
- Generated white-box tests that improved the compound condition coverage **from 85% to 100%** for the EUT.
- Implemented **parameterized JUnit tests** for specs generated using All-Pairs and Base-Choice combination criteria.

Refriendo | *React, Redux, TypeScript, Styled-Components, Figma, Git*   Oct 2021 - Jul 2022
- Demonstrated a proof-of-concept through **rapid prototyping** that was responsible for **80%** of the seed funding.
- Spearheaded the design and implementation of **100+ front-end components** with a mobile-first approach.
- Applied modern CSS techniques including grid and flexbox, resulting in a highly **responsive and accessible UI.**

HONORS LEADERSHIP

Student Leader: ECE Graduate Organization at Carnegie Mellon University
Sakura Science Fellow: Selected among 264 students as an Exchange Student at Ritsumeikan University, Japan in July 2019.
Youth Icon (title): Won first place in a national public speaking competition among 5000 participants in March 2019.
Mentor, Applied CS with Android: Trained 300 students on Android programming by conducting 2 workshops