Pawan Bhandarkar

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EDUCATION

Carnegie Mellon University   **Mountain View, CA**

*Master of Science in Software Engineering; **GPA: 4.0/4.0***   *December 2023*

Courses : Foundations of Software Engineering, Software Verification & Testing, Data Science for Software Engineering

NMAM Institute of Technology   **Nitte, India**

*Bachelor of Computer Science; **GPA: 4.0/4.0***   *April 2020*

Courses : Data Structures & Algorithms, Object Oriented Modelling & Design, Software Architecture, DBMS

EXPERIENCE

Team AIBOD Inc   Fukuoka City, Japan

Software Engineer II   *Nov 2021 - Apr 2022*

- Led development of a payment microservice, improving scalability and promoting reuse across 3 projects in a team of 7 using Scrum and Kanban Agile methodologies
- Containerized and deployed applications using Docker, configured remote monitoring for 5 unmanned store locations using AWS Cloudwatch, ensuring efficient operations
- Enhanced 3 ongoing projects by engineering a Search System with GraphQL and Python, using a test-driven approach, resulting in faster and more efficient data retrieval

Software Engineer I   *Jul 2020 - Oct 2021*

- Developed a GUI-tool for annotating and visualizing images, resulting in a 10x faster data pre-processing rate
- Integrated 30+ REST APIs, enhancing app functionality in a team of 6, wrote comprehensive integration tests
- Set up a Jenkins pipeline for CI/CD, and supported DevOps with AWS services (ECR, ECS, S3 and AWS Fargate)

Data Science Intern   *Feb 2020 - Jun 2020*

- Boosted KNN-supervised classifier accuracy by 7% through Feature Engineering, resulting in effective product classification in an unmanned store within a team of 4
- Researched BERT with PyTorch to automate support request routing in an apartment intercom system, integrating it with the Express API Server to provide AI as a Service
- Resolved over 20 bugs in the NodeJS (TypeScript) API server, contributing to increased stability and server performance, and assisted in full-stack application development

PROJECTS

Jira Issue Completion Date Prediction | *Pytorch, Transformers, Pandas, Flask, Jira*   *Mar 2023 - Present*

- Developed an end-to-end pipeline utilizing BERT and Recurrent Highway Networks to create a sophisticated NLP model capable of predicting Jira issue completion dates based on titles, summaries, and associated metadata

Feature Selection using Ant Colony Metaheuristic | *Python, Numpy, Pandas, Scikit-Learn*   *Feb 2023 - Mar 2023*

- Developed an innovative algorithm that leverages the principles of ant colony foraging behavior to identify and select the most significant features in a dataset, effectively reducing its size by 67% while maintaining 99.99% of the original model's performance

Incident Response | *AWS, Docker, React, Socket.IO, MongoDB, Jenkins, Jira*   *Feb 2023 - Apr 2023*

- Developed a communication platform for citizens and first responders during emergencies using React, Redux, Express.js and Socket.IO. Refactored codebase and managed development in a scrum-of-scrums setting. Deployed the app using Docker, Jenkins, and AWS

SKILLS

Languages	: Python, GraphQL, JavaScript, TypeScript, HTML5, CSS3, Java, C++, SQL
Frameworks	: ReactJS, NodeJS, Pytorch, Tensorflow, Redux, Express, NextJS, Flask, MongoDB, PostgreSQL
Tools	: Jenkins, Docker, AWS, Swagger, Postman, Figma, Storybook, Git
Practices	: Scrum, Kanban, Continuous Integration, Code Reviews, Test-Driven-Development

LEADERSHIP

Graduate Teaching Assistant : Mentored student Project teams on Software Engineering Principles and Practices for the Foundations of Software Engineering Course at Carnegie Mellon University

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