Pratyush Panda

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PROFESSIONAL SUMMARY

IT and Software Engineering graduate with hands-on experience in Agile methodologies and software development. Proficient in Python, JavaScript, and C. Led a team of six in a capstone project, delivering a robust car parking management system, demonstrating teamwork and technical expertise.

EDUCATION

University of New South Wales — Sydney, NSW
Masters of Information and Technology, WAM: 72.1/100 — *August 2022 – August 2024*

Gujarat Technological University — Vadodara, India
Bachelors in Computer Science and Engineering, GPA: 3.7/4.0 — *June 2018 – June 2022*

EXPERIENCE

Software Engineering Intern — Vadodara, India
Shail Technologies — *February 2020 – August 2022*

- Created 8 micro services using MERN stack, FastAPI, and NextJS, contributing to highly scalable solutions.
- Conducted cross-browser testing across 6 browsers, guaranteeing seamless compatibility across platforms.
- Spearheaded translation of 6+ UI wireframes into interactive web forms, communicating design needs to raise user experience.

PROJECTS

Car Space Renting Management System | *Django, React, MySQL, Docker* — January 2024 – April 2024

- Engineered a full-stack web application using Django, serving a REST API with React as frontend, creating 10+ key features and 40+ requirements exhibiting project management skills.
- Led a team of six as Scrum Master, implementing Agile methodologies by organising 3 sprints and facilitating retrospective meetings to improve team performance and maintaining an iterative development process.
- Collaborated with a cross-functional team to manage 40+ Jira tickets, design low-fidelity prototypes, and craft user stories, ensuring clear communication and alignment across all team members to streamline product creation.

PPT maker modelled after Canva | *React, MaterialUIKit, Swagger* — September 2023 – December 2023

- Designed and implemented frontend architecture utilizing React, translating 10+ requirements from Swagger and GitLab Documentation into functional components, aimed at increasing access to local resources.
- Formulated 2+ UI tests with Enzyme for front-end, validating reliability and performance for MVP presentation, accompanied by clear documentation to streamline development and testing processes.

Abstractive Dialogue Summarisation | *Python, LLMs* — September 2023 – December 2023

- Conducted a comprehensive study comparing effectiveness of static versus dynamic, context-aware embeddings in dialogue summarization by deploying models Seq2Seq, BART, and T5.
- Achieved marked improvements in summarization by refining model architecture; fine-tuned BART model increased ROUGE-1 score from 0.2866 to 0.4215, outperforming a custom Seq2Seq model.

Distributed City Surveillance System | *React, Python, Flask, MongoDb* — September 2020 – November 2020

- Conceptualized and developed a distributed surveillance system, leveraging human-AI collaboration to detect over 5 types of weapon-related pre-crime signals, while providing technical support to resolve issues for end-users.
- Achieved 60% accuracy in weapon detection, presenting results on a dashboard built with React.

TECHNICAL SKILLS

Languages: JavaScript, Python, C, SQL (Postgres), HTML/CSS, Golang
Frameworks: MERN Stack, React, Django, Node.js, Flask, Material-UI, FastAPI, Docker, Tensorflow, OpenCV, LLMs
Databases: PostgreSQL, MongoDB, MySQL

ACHIEVEMENTS AND EXTRACURRICULARS

Intel Global AI Festival 2021: AI Impact Creators Category 18+ India Winner — September 2022
F1 Society UNSW: Co-Vice President — September 2022 – August 2024