Praharsh R Dubey

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SUMMARY

Results-driven Master's student, passionate about software development and seeking exciting full-time opportunities. Dedicated to leveraging exceptional problem-solving and interpersonal skills to craft cutting-edge software solutions that drive digital transformation.

SKILLS & TECHNOLOGIES

Core Competencies: **Python**, **Java**.

Other Technologies: Django, HTML, CSS, JavaScript, Bootstrap, SQL, Git, JIRA, Trello.

EDUCATION

University of Glasgow, UK   **September 2022 – September 2023**

Master of Science (MSc) - Information Technology (Grade: Merit)

Thesis: ExpenSense: An automated expense management application for Small and Medium-Scale Enterprises (SMEs).

Manipal University Jaipur, India   **July 2016 – June 2020**

Bachelor of Technology - Electronics & Communication Engineering (Grade: First)

Thesis: A reliable geographic routing protocol design for cognitive vehicular ad-hoc network.

WORK EXPERIENCE

Golcha Group Pvt. Ltd., India   **December 2020 - July 2021**

IoT Developer - Intern

- Achieved breakthrough results by spearheading the development and execution of two game-changing Proof of Concepts, leading to significant advancements in the organization's technological capabilities.
- Delivered a high-impact Automated RF-ID based fuel management system with ERP integration, resulting in an impressive 30% reduction in fuel wastage, effectively optimizing resource utilization and promoting sustainability.
- Pioneered the implementation of a highly accurate LiDAR system, powered by Intel's Open3D library and Python3 with Embedded C, resulting in a remarkable cost reduction of over 50% in weighbridge maintenance and operation expenses.

PROJECTS

ExpenSense (Python, Django, HTML, CSS, JavaScript, Bootstrap, AJAX) Project Link   **June 2023 – August 2023**

- **Goal:** Spearheaded the development of an automated web application tailored for Small and Medium-Scale Enterprises to effectively manage employee expenses.
- Streamlined data processing operations by leveraging Optical Character Recognition (OCR) API and orchestrating a customisable approval engine, resulting in substantial reduction in processing time of an expense.
- Pioneered the establishment of a robust fraud prevention mechanism, accomplished by meticulously extracting and cross-referencing signatures from receipt images through the utilization of OpenCV.
- Architected a REST API to dynamically generate comprehensive PDF Reports within specified timeframes, enhancing data accessibility and reporting efficiency.

Simplify (Django, Python, HTML, CSS, JavaScript) Project Link   **January 2023 – March 2023**

- **Goal:** Development of a web application platform to facilitate knowledge exchange between tutors and students.
- Led a high-performing team of 5 developers, ensuring seamless project progress and successful delivery.
- Designed and implemented innovative functionalities that empowered tutors to create courses and enabled students to join them, resulting in an enhanced user experience for both parties.
- Developed a dynamic course forum, fostering collaborative learning by providing a platform for students to post questions and receive answers from batchmates or tutors.
- Personally contributed to 40% of the application's development, actively collaborating with other developers to drive efficient implementation.

Duelyst2: Backend Game Development (Java) Project Link   **January 2023 – March 2023**

- **Goal:** Development of the backend logic of a tactical card game.
- Enhanced gameplay experience by implementing diverse sets of rules and special abilities for various units on the board.
- Developed and rigorously tested an intelligent computer opponent, delivering a challenging and strategic gameplay experience, rivalling human opponents.
- Successfully managed a multifaceted role, encompassing intelligent computer opponent design, code reviews, conflict resolution, development direction, and comprehensive project documentation.
- Achieved on-time project completion by leading and guiding a team of 5 developers using agile methodologies.
- Demonstrated exceptional collaboration and proactive engagement by making significant contributions to 32% of the team's commits on GitLab.

ACHIEVEMENTS

Publication: Jha J., Dubey P.R., Pradhan P., Pai S.N. (2021) IoT-Based Home Security System with Wireless Communication. In: Hassanien A., Bhatnagar R., Darwish A. (eds) Advanced Machine Learning Technologies and Applications. AMLTA 2020. Advances in Intelligent Systems and Computing, vol 1141. Springer, Singapore, Pg 525-533. DOI

Other accomplishments:

- Ranked 2nd in SAS Automation challenge in CODE OLYMPICS 2023 (Hackathon).
- Headed the Event Management team at TEDx Manipal University Jaipur (2018).

Personal Interests / Hobbies: Formula 1, Anime, Geography and Machine Learning.