Praharsh R Dubey

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PROFESSIONAL SUMMARY

Highly motivated IT Graduate with an MSc in Information Technology from the University of Glasgow, experienced in software development, IoT systems, and backend development. Skilled in Python, Java, SQL, and front-end technologies like React and JavaScript, with a strong foundation in algorithms, data structures, and system design. Proven track record in delivering high-quality and scalable software solutions, solving complex problems, and managing ambiguity in dynamic agile environments. Passionate about leveraging cutting-edge technology to develop industry-defining projects. Actively seeking a software development role to innovate and build high-quality software solutions. Full Right to work in the UK.

CORE SKILLS & TECHNOLOGIES

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS, SQL
- **Frameworks & Libraries:** Django, React, Next.js, Node.js, jQuery, AJAX, Bootstrap, Material UI
- **Tools & Platforms:** Docker, AWS (RDS, EC2), Firebase, Git, CI/CD
- **Development Practices:** Agile, Test-Driven Development (TDD), Behaviour-Driven Development (BDD)
- **Database Systems:** SQL & NoSQL Databases (PostgreSQL, Cloud Firestore)
- **Testing & Debugging:** Pytest, JUnit, Playwright, Postman
- **Software Development Lifecycle:** Requirements gathering, development, testing, deployment, and support

PROFESSIONAL EXPERIENCE

Software Developer Intern | Radical AI | Remote, UK   July 2024 – Present
- Developed an intuitive multi-step onboarding workflow, increasing user engagement by 20% through Next.js with React on frontend and serverless Firebase functions with Node.js on backend.
- Elevated user experience by developing robust and scalable backend systems, reducing response time by 30%, by implementing Firebase functions for real-time chat interactions.
- Designed a generative AI based chat interface tailored to respond with a Scottish accent by integrating OpenAI API with React.

Project Management Lead | Zummit Infolabs | Bengaluru, India   December 2021 – May 2022
- Led a team of 10 in developing an AI API marketplace, increasing investment opportunities to £2.2 million by showcasing 45 machine learning use cases.
- Managed the migration of the AI API marketplace backend, reducing latency by 10%, by transitioning from Django to FastAPI.
- Developed tailored learning paths, increasing team productivity by 7%, by training and upskilling 20 team members.

Scrum Master | Zummit Infolabs | Bengaluru, India   August 2021 – November 2021
- Launched webinars on advanced AI topics, attracting 3 new clients, by addressing industry developments in Reinforcement Learning and Racism/Terrorism Detection.
- Produced 80+ sprint reports, improving client satisfaction by 15%, by proactively documenting progress and outcomes for stakeholder presentations.

IoT Developer Intern | Golcha Group Pvt. Ltd. | Jaipur, India   December 2020 – July 2021
- Deployed an automated fuel management system, reducing fuel wastage by 10%, by integrating RFID technology with ERP systems.
- Engineered a highly accurate LiDAR system, cutting weighbridge maintenance costs by 20%, by using Intel's Open3D library with Python and Embedded C.

EDUCATION

Master of Science - Information Technology | 2:1 (Merit) | University of Glasgow   2022 – 2023
- **Relevant Modules:** Advanced Programming (1st), Algorithms and Data Structures (1st), Internet Technology (1st)
- **Thesis:** Developed *ExpenSense*, an automated expense management application for SMEs, utilising Python and Django Rest Framework, with an emphasis on secure data handling and fraud prevention.

Bachelor of Technology - Electronics & Communication Engineering | 1st | Manipal University Jaipur   2016 – 2020
- **Relevant Modules:** Programming in C, Embedded and Real-Time Operating Systems, Introduction to Python
- **Thesis:** Designed a reliable geographic routing protocol for Cognitive Vehicular Ad-hoc Networks.

PROJECTS

ExpenSense | *Python, Django, HTML, CSS, JavaScript, PostgreSQL, AJAX* | Project Link   June 2023 – August 2023
- Engineered a responsive full stack web application to streamline SME expense management, reducing processing time by 60%, by implementing OCR and machine learning algorithms.
- Innovated a robust fraud prevention mechanism, increasing reliability by 50%, by hybridising two computer vision algorithms.

Duelyst2: Backend Game Development | *Java* | Project Link   January 2023 – March 2023
- Implemented server-side logic for a tactical card game, ensuring smooth gameplay for users, by incorporating AI-driven opponent strategies.

ACHIEVEMENTS & EXTRACURRICULARS

- **SAS Automation Challenge:** 2nd place out of 50 participants, CODE OLYMPICS 2023.
- **Conference Presentation:** Presented a paper on Advanced Machine Learning Technologies.
- **Leadership:** Led a 50-member team at TEDx Manipal University Skility Jaipur, achieving a 9/10 satisfaction score.
- **Club Leadership:** General Secretary of the Electronics club, increased enrollment by 30% through strategic workshop initiatives.

Personal Interests: Formula 1, Anime, Hiking, AI.