Bhagyashree Rane

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Professional Summary

Passionate about solving problems, debugging, and building reliable systems. A Computer Science MSc student with experience in reinforcement learning research and full-stack software development.

Experience

Research Assistant **May 2024 – Present**
Fraunhofer ISE

- Contributing to the FEDECOM pilot under OpenMUC, with one driver successfully released and deployed across European clients.
- Maintaining CI/CD pipelines, improving code quality, and developing new integrations for large Java-based systems.

Software Engineer I **Jul 2022 – Oct 2023**
Providence Global Center

- Designed and implemented a modular micro-frontend architecture for an enterprise access control system using React and ASP.NET Core, integrating authentication and role-based policy APIs.
- Developed RESTful back-end services and data synchronization layers for patient and employee information systems, optimizing API performance and reliability.
- Automated insurance claim auditing workflows through data aggregation and anomaly detection pipelines, replacing manual Excel-based processes.

Software Intern **Jun 2021 – Jul 2021**
Providence Global Center

- Built a Q&A web tool using ASP.NET Core, React, and Elasticsearch.

Skills

- **Languages:** Java, Python, C#, JavaScript
- **Frameworks & Libraries:** PyTorch, TensorFlow, ASP.NET Core, React
- **Tools:** Docker, Git, CI/CD
- **Databases:** MySQL, MongoDB
- **Spoken Languages:** English (Fluent), German (Intermediate)

Education

MSc Computer Science **2023 – Present**
University of Freiburg, Freiburg, DE
Relevant Coursework: Reinforcement Learning, Software Engineering, Information Retrieval, Functional Programming.
Current Study Project: Reward Augmentation Strategies in Reinforcement Learning, exploring intrinsic and confidence-based reward mechanisms to enhance exploration and stability in RL agents.

B.Tech Computer Engineering **2018 – 2022**
Cummins College of Engineering, Pune, IN
CGPA 8.69.
Final Year Project: Generating Compiler Phases from Specifications of Intermediate Representations, implemented translation rules and IR parsers using Lex and Yacc.

Extra-Curricular

- Volunteered for Teach for India, conducting Scratch Programming sessions.
- Active participant and winner in multiple hackathons and innovation ideathons.
- Played football and table tennis at inter-collegiate, school, and state levels.