

PRATHAP SELVAKUMAR

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PROFESSIONAL SUMMARY

Software Engineer with a strong background in computer science, passionate about the intersection of medical robotics and AI. Experienced in Python, machine learning, biomedical signal processing, and data analysis. Eager to apply my skills to develop intelligent, patient-focused robotic systems that advance healthcare through innovation.

WORK HISTORY

Aug 2024 - May 2025

Software Engineer

C- Square Info Solutions Ltd (Subsidiary of Reliance Retail) – Kochi, India

- Proficient in front-end development using React, with a strong understanding of component-based architecture
- Experience in building and optimizing dynamic, high-performance web applications
- Hands-on expertise in deploying React applications using cloud and containerized environments
- Skilled in integrating APIs, handling real-time data, and ensuring seamless user interactions

Feb 2024 - Apr 2024

AI/ML Project Intern

Qentelli Solutions Private Ltd - Hyderabad, India

- Assisted in designing an AI-powered chat bot, leading to enhanced user experience and increased customer satisfaction.
- Ensured proper documentation of all work processes that helped create a knowledge base resourceful for future interns and team members.
- Trained neural networks for image recognition tasks, enhancing the overall system's ability to accurately identify objects within images.
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Sep 2023 - Nov 2023

Python Developer Intern

C- Square Info Solutions Ltd (Subsidiary of Reliance Retail) – Kochi, India

- Optimized application performance with efficient algorithms and data structures.
- Improved code quality by implementing rigorous testing and debugging processes.
- Implemented custom Python libraries to simplify complex workflows and improve maintainability.
- Maintained comprehensive documentation of code changes, bug fixes, feature additions, making it easier for future developers to understand the system's architecture efficiently.

EDUCATION

- **MSC: ROBOTICS** – UNIVERSITY OF MANCHESTER | Manchester, United Kingdom.
- **BTech: CSE- SRM IST RAMAPURAM** | Tamil Nadu, India.

Sep 2025 – Current
Oct 2020 – Aug 2024

SKILLS

- PYTHON
- Node
- Big Data analytics
- Data analysis
- React
- SQL
- Python
- Big data analytics

PUBLICATIONS

- Comparative Analysis Implementation of Queuing Songs in Players Using Audio Clustering Algorithm - **Published in IGI Global Publication.**

ACADEMIC INTERNSHIP COMPLETED

- GAIP-Big Data Analytics using deep learning - National University of Singapore
- GAIP-Big Data Analytics using deep learning – Amazon Web Service