Rohit Krishnan

Software Engineer

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Profile

A dynamic Software Engineer and ML enthusiast pursuing an MSc in Artificial Intelligence at the University of Surrey. Specialised in web technologies, I excel in tackling complex challenges and delivering innovative solutions. Known for rapid technology adoption and strong team collaboration.

Experience

Oct 2023 – Present — **Part-Time Research Assistant**, *University of Cambridge*, UK.
- Developed a sample tracking solution for a histopathology lab using vision models and OCR.
- Optimized and packaged ML models for deployment on low compute microcontrollers.
- Built a Digital Twin platform for orchestrating federated simulation and analytics modules.

May 2022 – Jul 2023 — **Senior Software Engineer**, *Tiatech Health Technologies*, India.
- Transformed "TiaImage" - a radiology viewer, enhancing UI/UX and leading to promotion.
- Developed Python microservices for DICOM imaging and teleconferencing, adopted by 30+ hospitals.
- Ensured compliance with ONC certification for US markets.

July 2019 – August 2019 — **Summer Intern**, *Jaldee Soft Pvt Ltd*, India.
- Developed well-tested Java Spring Boot services for an Angular frontend.
- Utilized Agile methodologies with Jira and embraced Test-Driven Development (TDD) principles.
- Enhanced software development skills through hands-on experience in real-world projects early in my career.

Education

2023–Present — **MSc Artificial Intelligence**, *University of Surrey*, Guildford.
- Specializing in Computer Vision, Deep Learning, and NLP.

2018–2022 — **Bachelor of Technology in Computer Science**, *Neusoft Institute of Technology*, Guangdong.
- GPA: 3.94, ranked among top performers for the 2022 batch.
- Thesis: Serverless e-commerce platform for cost-effective small-scale business operations.
- Notable course results:
  - Fundamentals of Programming (Java): 100%
  - Data Structures and Algorithms: 92%

Projects

Title — **Understanding HUMAN-HUMAN Interactions for Generating Motion from Text**

Description — Training energy-based models to learn from videos and understand human-human interactions. Focused on generating realistic human motion sequences from textual descriptions.

Title — **Digital Twin Orchestration Platform**

Description — Developed a platform to enable researchers to compose and federate simulation models. Key components include:
- Developed a platform for composing and federating simulation models using Kubernetes API.

Skills

Languages — Python, Java, JavaScript/TS, Rust, C

Frameworks — PyTorch, React.js, FastAPI, Spring Boot

Databases PostgreSQL, Redis, MongoDB, MySQL, Kafka, MQTT

Skills

Cloud/Tools AWS, Docker, Kubernetes, Git/Gitlab, JIRA

Soft Skills
- Quick to blend into teams and contribute effectively.
- Hardworking with a strong commitment to project success.
- Excellent communication skills for clear and effective collaboration.
- Proficient at identifying business requirements and breaking them down into manageable tasks.
- Passionate about learning and research, with a keen ability to grasp new concepts and technologies quickly.

Honor and Awards

2022 2022 Excellent Graduate Award for academic and athletics performance during my bachelor's.

2018 Ranked first in 12th Grade Computer Science 98%

2016 Ranked first in 10th Grade Computer Science 99% and French

Languages

English: Native or Bilingual proficiency

Hindi: Native or Bilingual proficiency

Japanese: Beginner proficiency

Mandarin: Beginner proficiency