

Jayananden Meenakchisundaram

📍 Dublin, Ireland 📩 jayananden@gmail.com ☎ +353 083 833 9317 💬 linkedin.com/in/jayananden

Summary

Currently pursuing a Master's degree in Computer Science at Trinity College Dublin, with prior experience working as a Software Engineer in Agile environments. Brings a strong foundation in technical problem-solving, clear communication, and cross-team collaboration. Seeking challenging roles that foster continuous learning and deliver meaningful impact with scalable and well-integrated software systems.

Education

Trinity College Dublin

MSc Computer Science (Intelligent Systems)

Dublin, Ireland

Sept 2025 – Present

- **Current Modules:** Machine Learning, Advanced Software Engineering, Scalable Computing, Applied Statistical Modelling
- **Thesis:** Applying Attention Mechanisms in Multi-Agent Reinforcement Learning for Traffic

Kumaraguru College of Technology

BE Mechatronics Engineering

Coimbatore, India

July 2018 – Apr 2022

- **Relevant Modules:** Microcontroller and Embedded Systems, Sensors and Instrumentation, Robotics Engineering, Image Processing and Computer Vision
- CGPA: 9.1/10

Experience

Software Engineer

Bosch Global Software Technologies

Coimbatore, India

Oct 2022 – Aug 2025

- Built and maintained **CI/CD pipelines** with Jenkins, Gerrit, and JFrog Artifactory, reducing the build cycle time by **25%** and supporting a **20-member infotainment team**
- Co-developed an **infrastructure provisioning tool** with Docker & Kubernetes across Ubuntu, Yocto, and QNX, streamlined setup for **50+ developers**
- Designed a **microservices-based QA automation system** using log parsers & sentence transformers, cutting manual bug ticketing effort and accelerating resolution speed

Project Trainee

Bosch Global Software Technologies

Coimbatore, India

Apr 2022 – Jul 2022

- Developed an internal **bug tracking & discussion web app** (React.js, Node.js, MongoDB) with ML-based semantic search, reducing duplicate bug reports

Projects

Sustainable City Management (Advanced Software Engineering — In Progress)

React.js, Django, Azure

- Designed a multi-tier web application with a React.js frontend and Django backend, containerized with Docker and deployed on Azure Kubernetes Service (AKS).
- Integrated PostgreSQL and Redis for persistent storage and caching, improving response times for API and analytics workloads
- Applied CI/CD and DevOps practices using GitHub Actions for container build, test, and deployment workflows to support scalable, cloud-ready operations

Certifications

- **Deep Learning Specialization (Coursera)** – Hands-on training with CNNs, RNNs, and transformers using TensorFlow
- **Design Thinking for Innovation (Coursera)** – Applied design thinking to opportunity recognition, idea generation, and user-centered problem solving, aligning with a growth-oriented mindset
- **Build a Modern Computer from First Principles (Coursera)** – Practical understanding of computer architecture

Skills

Tools/Platforms: Docker, Kubernetes, Jenkins, Grafana, Git, Terraform, Azure

Programming Languages: Python, Groovy

Frameworks/Libraries: NumPy, scikit-learn, TensorFlow

Environments: Linux (Yocto, Ubuntu)

Soft Skills: Problem-solving, Time management, Communication skills, Leadership

Honors & Awards

- Postgraduate E3 Balanced Solutions for a Better World Scholarship (€3,000) Trinity College Dublin, Awarded for academic excellence as part of Trinity's E3 initiative
- Mahatma Gandhi Scholarship Award Kumaraguru College of Technology, merit-based recognition for consistent academic performance

Extracurriculars

Student Developer

Aug 2020 – Oct 2021

Robotics and Automation Club (RAC)

- Gained hands-on exposure to hardware and software integration with real-time problem solving by working on club projects
- Led a student development team, coordinated robotics software projects and mentoring

Volunteering

- Participated in Bosch's CSR initiatives, including environmental activities such as lake cleaning and restoration drives
- Ran marathons to support a cancer foundation fundraising initiatives, showcasing dedication and community involvement