

# Jayananden Meenakchisundaram

📍 Dublin, Ireland    ✉ jayananden@gmail.com    ☎ +353 083 833 9317    in 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

---

- |   |   |
|---|---|
| <b>Trinity College Dublin</b><br><i>MSc Computer Science (Intelligent Systems)</i>  | <i>Dublin, Ireland</i><br><i>Sept 2025 – Present</i>    |
| <ul style="list-style-type: none"><li>◦ <b>Current Modules:</b> Machine Learning, Advanced Software Engineering, Scalable Computing, Applied Statistical Modelling</li><li>◦ <b>Thesis:</b> Applying Attention Mechanisms in Multi-Agent Reinforcement Learning for Traffic</li></ul> |   |
| <b>Kumaraguru College of Technology</b><br><i>BE Mechatronics Engineering</i>   | <i>Coimbatore, India</i><br><i>July 2018 – Apr 2022</i> |
| <ul style="list-style-type: none"><li>◦ <b>Relevant Modules:</b> Microcontroller and Embedded Systems, Sensors and Instrumentation, Robotics Engineering, Image Processing and Computer Vision</li><li>◦ CGPA: 9.1/10</li></ul>   |   |

## Experience

---

- |  |  |
|--|--|
| <b>Software Engineer</b><br><i>Bosch Global Software Technologies</i>  | <i>Coimbatore, India</i><br><i>Oct 2022 – Aug 2025</i> |
| <ul style="list-style-type: none"><li>◦ Built and maintained <b>CI/CD pipelines</b> with Jenkins, Gerrit, and JFrog Artifactory, reducing the build cycle time by <b>25%</b> and supporting a <b>20-member infotainment team</b></li><li>◦ Co-developed an <b>infrastructure provisioning tool</b> with Docker &amp; Kubernetes across Ubuntu, Yocto, and QNX, streamlined setup for <b>50+ developers</b></li><li>◦ Designed a <b>microservices-based QA automation system</b> using log parsers &amp; sentence transformers, cutting manual bug ticketing effort and accelerating resolution speed</li></ul> |  |
| <b>Project Trainee</b><br><i>Bosch Global Software Technologies</i>  | <i>Coimbatore, India</i><br><i>Apr 2022 – Jul 2022</i> |
| <ul style="list-style-type: none"><li>◦ Developed an internal <b>bug tracking &amp; discussion web app</b> (React.js, Node.js, MongoDB) with ML-based semantic search, reducing duplicate bug reports</li></ul>  |  |

## Projects

---

- |   |                                |
|---|--------------------------------|
| <b>Sustainable City Management (Advanced Software Engineering — In Progress)</b>  | <i>React.js, Django, Azure</i> |
| <ul style="list-style-type: none"><li>◦ Designed a multi-tier web application with a React.js frontend and Django backend, containerized with Docker and deployed on Azure Kubernetes Service (AKS).</li><li>◦ Integrated PostgreSQL and Redis for persistent storage and caching, improving response times for API and analytics workloads</li><li>◦ Applied CI/CD and DevOps practices using GitHub Actions for container build, test, and deployment workflows to support scalable, cloud-ready operations</li></ul> |                                |

## 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