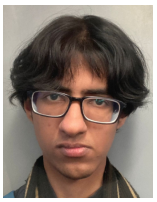

Rajat Varma

Email | LinkedIn | GitHub

+31-683482444 | Rotterdam, The Netherlands, NL

Software Engineer with experience across backend systems, cloud infrastructure, and high-reliability applications. Strong background in distributed systems, systems engineering, and performance optimization with proven ability to deliver impactful software with real users at scale.

Education

Ashoka University — Sonepat, India
Bachelor of Science in Computer Science — *Aug 2021 – May 2024*

Leiden University — Leiden, The Netherlands
Master of Science in Computer Science. Specialisation in Advanced Computing and Systems — *Expected Jul 2026*

Experience

Software Engineer (Multiple Roles) — Jun 2019 – Aug 2023 (Multiple Returning Roles)
Codon Software — *Hyderabad, India*

- **Built an inventory management dashboard** using Django + Vue + PostgreSQL, reducing user task time by **70%**
- Developed a **customer support chatbot** using DialogFlow; automated training on 500+ queries
- Built a **Design of Experiments API** using R and Plumber for lab testing workflows
- Automated email tracking with an AWS Lambda + DynamoDB solution
- Developed multiple production mobile apps:
  1. E-commerce app with **5000+ downloads** on Play Store
  2. Internal HR tracking app used by **100+ employees in a healthcare organization**
  3. Field operations app in the mining sector reducing sample collection turnaround time by **60%**

Software Engineering Intern — May 2022 – Sep 2022
Andwemet — *Delhi, India*

- Developed cross-platform mobile app features using React Native
- Migrated web app frontend from Node 14 to Node 20 and JavaScript to TypeScript
- Identified and **resolved 10+ critical bugs**, improving platform reliability

Postgraduate Teaching Assistant — Feb 2025 – Jan 2026
Leiden University — *Leiden, The Netherlands*

- TA for Logic I and II and Inleiding Computersystemen en Netwerken
- Conducted weekly exercise sessions, graded assignments and exams, and supported student learning

Undergraduate Teaching Assistant — Aug 2023 – May 2024
Ashoka University — *Sonepat, India*

- TA for Computer Organisation & Systems and Operating Systems
- Created lab assignments, graded exams, and conducted weekly office hours
- Received an average student rating of **3.9/5**

Teaching Assistant — May 2023 & Jun 2024
Plaksha University — *Mohali, India*

- Taught Python programming and electronics to **150+ high school students**
- Mentored students on hands-on projects involving microcontrollers and sensors
- Designed two projects: **ECG machine** and **agricultural rover**

Projects

Transit Network Detection | *Urban computing, ML* Sep 2024 – Jan 2025

- Built dataset via Google Maps scraping and implemented satellite-image network detection baseline
- Adapted state-of-the-art models to significantly outperform baseline accuracy

AgBot – Agricultural Rover | *C, MicroPython, Arduino, Microcontrollers* May 2024 – Jun 2024

- Built rover hardware + software for remote sensing and data streaming to central server

ECG Monitoring System | *C, Python, ESP32, Arduino* Apr 2023 – Jun 2023

- Built a working ECG device using ESP32 + Python and visualized real-time readings

Prereg Helper | *JavaScript, SvelteJS* Dec 2022 – Feb 2023

- Built a SvelteJS tool used by 600+ students to plan course schedules
- Scraped course data and automated timetable visualization

Technical Skills

Languages: Python, C, C++, Java, SQL, JavaScript/TypeScript, R, Haskell, Bash, CUDA
Frameworks: React, React Native, Flutter, Django, Flask, Node.js, Svelte, OpenMP, MPI, RPC
Developer Tools: AWS (Lambda, DynamoDB, S3), GCP, Azure, Docker, Git, Linux, Virtual Machines
Libraries: NumPy, Pandas, OpenCV, scikit-learn, TensorFlow, PyTorch
Systems: Distributed Systems, Operating Systems, Networking, Performance Optimization

Certifications

- Google – Foundations of UX Design (2021)
- IBM – Machine Learning with Python (2020)
- IBM – Python for Data Science and AI (2020)
- University of Michigan – Programming for Everybody (2018)

Test Scores

- TOEFL iBT: **116/120** (2023)
- SAT: **1440/1600** (2020)
- DELF A2: **80/100** (2018)