Razib Hasan

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SOFTWARE ENGINEER

Software Engineer with a strong interest in Embedded Systems and DevOps, backed by experience in C, C++, Python, and Java. Motivated to build reliable, automated systems and continuously improve development and deployment workflows in collaborative environments.

TECHNICAL SKILLS

Programing Languages

- C++
- Python
- JavaScript
- Java

Embedded System
- Microcontroller, RaspberryPi, Arduino, ESP
- 12C, SPI, UART, MQTT, SLM, ISR
- Lidar, RTOS, Op Amp, Sensors, LTspice, Matlab

Frameworks & Libraries

- QT (C++)
- Flask, TensorFlow, Pandas, NumPy, Scikit-learn (Python), Decision Tree, Linear & Logistic Reg, CNN, ANN
- React, Express.js, Node.js, Next.js
- Sprint Boot (Java), Maven
- RobotFramework, Selenium, Cucumber, JUnit, PyTest

Cloud & DevOps

- Docker, Kubernetes
- AWS, Azure
- Git, CI/CD, Bash Scripting, API
- Linux, MacOs, Windows
- Virtual Machine

Data Analysis

- Matplotlib, Tableau
- MongoDB, MySQL, PostgreSQL, SQL
- S2 (AWS)
- Big Data, Data cleaning

Mobile Development

- Cross-platform tools: React Native, Flutter
- iOS- Swift
- Android- Java
- REST API

Project Management

- Jira
- Confluence
- Trello
- Agile
- Team work
- Notion

PROFESSIONAL EXPERIENCE

Tampere University of Applied Sciences

Robotics Software Engineer   Jan 2026 - current

Developing a centralized software platform at FieldLab (Tampere) to coordinate and automate tasks across multiple robots. The system is designed with group-based robot management and centralized task assignment. Also contributing to build and deployment processes as the platform continues to evolve.

Solita Oy

Software Architect Intern   Jan 2024 - May 2024

As a Software Architect Intern at Solit Oy, I designed and developed an iOS app to detect potholes using CoreMotion and CoreLocation for real-time drop detection and GPS tagging. I implemented a scalable AWS backend design with Lambda, API Gateway, DynamoDB, and S3 for data processing and storage. The system integrates sensor fusion for improved motion accuracy and supports a web dashboard for visualizing pothole data to assist road maintenance teams.

Tampere University of Applied Sciences

Project Manager   Jan 2024 - May 2024

Led a team as Project Manager for a school project. Objective of the project is to build an integrated networking system for 3D printers. Used technologies in this project such as RaspberryPi, Flask, IDM, Data management (SQL), AutoSSH, SSH tunnel, Cloud hosting and Automation.

EDUCATION

University of Helsinki

Master's Programme in Computer Sciences

Majors: Algorithm

2025-2027

Tampere University of Applied Sciences

Bachelor of Engineering

Majors: Software Engineering

2021-2025

PROJECTS

<u>Autonomous Vehicle</u>   <u>Automated Drone Delivery</u>

ACHIEVEMENTS

AWS Hackathon, 2022   Position: 1st (Champion)

Microsoft Hackathon, 2022 Position: 1st (Implement)

REFERENCE

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