

# Razib Hasan

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## SOFTWARE ENGINEER

Passionate and results-driven software developer eager to take on a dynamic role in a challenging environment. I am particularly drawn to opportunities in software automation, embedded systems/IoT, cloud computing, and data-driven machine learning projects. With a solid foundation in C++, Python, and Java, I am excited to leverage my skills to contribute to innovative solutions in these domains.

## TECHNICAL SKILLS

### Programing Languages

- C++
- Python
- JavaScript
- Java

### Embedded System

- Microcontroller, RaspberryPi, Arduino, ESP
- 12C, SPI, UART, MQTT, SLM, ISR
- Lidar, ROS, Op Amp, Sensors

### Frameworks & Libraries

- QT (C++)
- Flask, TensorFlow, Pandas, NumPy, Scikit-learn (Python), Decision Tree, Linear & Logistic Reg, CNN, ANN
- ReactJs, Express Js, NodeJs (JavaScript)
- Sprint Boot (Java), Maven
- RobotFramework, Selenium, Cucumber, JUnit, PyTest

### Cloud & DevOps

- Docker
  - AWS, Azure
  - Git, CI/CD, Bash Scripting, API
  - Linux, MacOS, Windows
  - Virtual Box
- ### Data Analysis
- Matplotlib, Tableau
  - MongoDB, MySQL, Tableau, PostgreSQL
  - 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

### Solita Oy

#### Software Architect Intern

May 2025 - Jun 2025

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.

### Kajaani University of Applied Sciences

#### Market Research Assistant Analyst Intern

Jun 2019 - Dec 2019

I supported project planning and execution at KAMK, driving educational expansion into international markets. My key contributions included data analysis, financial planning, fostering strategic collaborations, maintaining customer relationships, and delivering impactful marketing strategies, pricing models, and sales pitches.

## EDUCATION

### University of Helsinki

#### Master's Programme in Computer Sciences

Majors: Software & ML

2025-2027

### Tampere University of Applied Sciences

#### Bachelor of Engineering

Majors: Software Engineering

2021-2025

## PROJECTS

Food Delivery System Automated Drone Delivery

## ACHIEVEMENTS

**AWS Hackathon, 2022** Position: 1st (Champion)

**Microsoft Hackathon, 2022** Position: 1st (Implement)

## REFERENCE

### Esa Kunnari

Head of Degree Program, SE  
Tampere University of Applied Sciences

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