

MAYANK GOVILLA

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EDUCATION

Worcester Polytechnic Institute (WPI) | Worcester, MA

Bachelor of Science in Computer Science and Robotics Engineering (3.93/4.0)

Dec 2022

Related Courses: Software Engineering, Databases, Operating Systems, Algorithms, Data Structures

SKILLS

Languages: JavaScript, Go, Python, Java, Dart, C/C++, MATLAB

Tools: Git, Jira, Bash, Docker, Kubernetes, Google Cloud, AWS, GraphQL, Postman

Certifications: AWS Solutions Architect Associate (Sept '21)

WORK EXPERIENCE

Associate Developer | Jahnel Group | Schenectady, NY

Jun 2021 – Present

- Created party planning web application with GRAND Stack to learn **React** and **GraphQL**
- Designed **RESTful** microservice in **Go** to organize a hierarchy in **CockroachDB** with a closure table
- Decoupled system of 4 microservices to comply with best practices
- Wrote thorough tests in **Postman** and made errors human-readable to increase dev efficiency
- Presented sprint progress every 2 weeks to the larger workstream of 50 people

Directed Researcher | Satellite Internet Lab | WPI

Mar 2021 – May 2021

- Conducted tests with a Satellite setup to compare QUIC and TCP in long RTT environments
- Concluded QUIC outperform TCP (using BBR congestion control) on network startup
- Developed **bash** scripts to automate the testing process in a remote environment

Project Manager | Team A in CS3733 | Remote

Jan 2021 – Mar 2021

- This course was in collaboration with Brigham and Women's hospital to create an indoor pathfinding desktop and mobile application
- Directed team of 10 students through 1 week development sprints which included creating user stories, managing **GitHub** issues/pull requests, and daily **scrum** meetings

Intern | Harmoni BioSolutions | Remote

Jun 2020 – Aug 2020

- Adapted **Python** script to analyze Next Generation Sequencing data 5x faster than the existing solution using **multiprocessing**, saving over 80 hours per analysis
- Migrated the existing data pipeline to the cloud with **Terra**

Intern | Technolexis Pvt Ltd | Hyderabad, India

Jul 2018 – Aug 2018

- Produced 5 3D Printed Arduino robots for under \$10 with a team of 4 engineers
- Taught students the basics of programming at 3 schools in India

PROJECTS

Goatbook App | Hack@WPI

Jan 2021

- Created subscriber based social media app with 3 others over the course of 36 hours
- Designed real-time messaging system with Google **Firestore**

KD Tree Implementation | Algorithms | WPI

Apr 2020

- Implemented a k-d tree and its nearest neighbor algorithm in **Java** with 3 others

ACTIVITIES

TA for Systems Programming | CS Department | WPI

Aug 2021 – Present

New Member Educator | Sigma Pi Gamma Iota | WPI

Jan 2021 – Mar 2021

Field Technical Advisor | FIRST Tech Challenge | NJ

Summers 2018-20