Satish Upadhyaya

https://www.linkedin.com/in/SatishUpadhyaya
https://www.github.com/SatishUpadhyaya

xxxx
Broomfield, CO 80023
(303) 557-xxxx
satishrajupadhyaya@gmail.com

EXPERIENCE

Microsoft, Software Engineer

September 2021 - PRESENT

Working as a Software Engineer in the Physical Networking team in Azure Networking currently focused on writing automation scripts.

Sustainable Buildings Laboratory, Research Assistant

November 2018 - August 2021

Developed a scalable software system on CU's supercomputer cluster for running large-scale energy simulations.

Microsoft, Software Engineer Intern

May 2020 - August 2020

Designed and developed a distributed software system for the Physical Networking team with authentication, server-client architecture, and Azure storage services. Constructed critical infrastructure that had not existed for our org.

Udana Systems, Co-Founder

February 2018 - June 2020

Co-founded an autonomous drone delivery start-up using cutting edge technologies. Developed a Minimum Viable Product using ROS, PyTorch and other technologies.

Workday, Software Engineer Intern

May 2019 - November 2019

End-to-end web application development for the new multi-level sort feature within Workday Worksheets.

SKILLS

Languages, Frameworks, and Technologies

Python, C#, C, C++, Java, Scala, JavaScript, TypeScript, HTML, CSS, Vue.js, React, Flutter, Django, Git, Pandas, Numpy, Scikit-learn, SVM

Other Skills

Data Structures, Arduino, Linux, Data Science, Embedded Systems, Mobile Development

EDUCATION

University of Colorado Boulder – Computer Science, BS

January 2018 - August 2021

3.75 Cumulative GPA, College of Engineering Active Learning Award

Relevant Coursework: Programming Languages, Robotics, Algorithms, Data Science, Digital Logic, Operating Systems, Cybersecurity, Software Development, Discrete Structures, Computer Systems, Data Structures

PROJECTS

OpenPose Drone Control Via Body Movement – ROS Simulation

An application developed using MAVROS to control a drone through real-time user input via keyboard controls, ArUco tracking, and OpenPose.

NFL Home-Field Predictor – Support Vector Machine

A Python application developed to predict if the game was played in the home field or away based on the QB rating and total points scored.

Bike Buddy – Bicycle Security System

A cross-platform application and embedded systems project that allows bike users to virtually 'lock' their bike. My work focused on developing part of the mobile application (Flutter), programming a Raspberry Pi to perform HTTP requests to our API, and interfacing sensors such as an accelerometer and a buzzer.