# Ayush Khanal

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U.S Citizen

## EXPERIENCE

### Microsoft – *Software Engineer Intern*, Bellevue, WA
May 2020 - August 2020

Improved the Nearby Search experience for Bing Maps. Worked with TypeScript, C#, ASP.NET, and the Bing Distance Matrix REST API.

### Udana Systems – *Co-Founder and CEO*, Boulder, CO
February 2018 - May 2020

Co-founded an autonomous Drone Delivery startup using cutting-edge technology. Used ROS, PyTorch, Microservices, and other technologies to develop a Minimum Viable Product.

### Terumo BCT – *Software Engineer Intern*, Lakewood, CO
May 2019 - August 2019

Developed two CI tools in Python and wrote formal design documents for these tools. Wrote C++ code for TS-4900 board. Worked in an Agile team.

### Sustainable Buildings Laboratory – *Undergraduate Research Assistant*, Boulder, CO
February 2018 - September 2018

Cleaned building power usage data using Pandas and Python. Learned about unsupervised machine learning techniques.

### Lexmark – *Software Engineer Intern (HS)*, Longmont, CO
September 2016 - December 2016

Used Meteor.js to create a UI that monitored factory machinery.

## SKILLS

**Technologies and Languages:** Python, TypeScript, C++, C, React, ROS, JavaScript, Go, Bash, SQL, Linux, Git, Flask, ASP.NET, Vue.js, Flutter

**General Skills:** Fullstack Web Development, Continuous Integration, Machine Learning, Embedded Systems, Mobile Development, AWS

## EDUCATION

### University of Colorado Boulder — *B.S. in Computer Science*
August 2017 - Present | Senior

3.68 GPA, Sewall Scholar, BOLD Scholar

## PROJECTS

### Neural Network,
*Personal Project*

Python, Numpy

Developed a Neural Network that can identify 8x8 handwritten images of digits with 96 percent accuracy.

https://github.com/jptboy/NeuralNetwork

### Microservices Suite,
*Udana Systems*

Python, Flask, Docker

Architected, developed, and setup CI/CD for various microservices using Docker, Flask, Gitlab, and AWS EC2.

### GPS Waypoint Flight Planning System for Drones,
*Udana Systems*

C++, ROS, Go, Python, Vue.js

Worked on both the UI and embedded systems code for this application.

## RELEVANT COURSEWORK

Operating Systems, Data Science, Algorithms, Data Structures, Calculus, Linear Algebra, Cybersecurity

## HOBBIES AND INTERESTS

Basketball, Weightlifting, Hiking, Startups, Finance, Hackathons