TANMAY SINGH

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EDUCATION

The University of Texas at Austin	Major: Bachelor of Computer Science | Minor: Business Foundations	May 2022
	Completed Coursework: Data Structures, Discrete Math, Multivariable Calculus, Computer Architecture, Operating Systems, Algorithms, Computer Vision, Neural Networks, Software Engineering, Data Mining	

EXPERIENCE

Amazon – *Software Engineering Intern (Last Mile Team); Austin, Texas* — Summer 2021
Focuses on getting customer packages from delivery stations to a customer's doorstep
- Duplicated event delivery in a mobile app previously using API calls to also use an asynchronous message bus
- Created SQS queues using the CDK to deliver messages from the Message Broker to the backend
- Scoped and enhanced structure of DynamoDB in the backend for automatic verification of events
- Decreased battery life and missed message drop rate by over 20% in a A/B test setting
- Skills: Java, Kotlin, C++

Crestron Electronics – *Software Engineering Intern;* Plano, Texas — Summer 2019
Software company focused on audiovisual automation and integration solutions
- Automated testing for hardware devices in different stages of Agile development process
- Developed a WebUI dashboard and an API that streamlines internal phone systems to reduce metric inaccuracy of clock-ins
- Investigated drive creation process of third-party devices with Crestron products
- Skills: Java, Python, Apache Maven, TestNG, Jenkins

PROJECTS

AroundATX — Fall 2021
- Constructed a website to educate people about local restaurants, hotels, and suspicious incidents happening in an area
- Executed a RESTful API to collect data from external data sources and exported JSON response files
- Added pagination, searching, sorting, and filtering on each model's page
- Skills: Python, Flask, AWS, Postman, SQLAlchemy, Docker

SuperTuxKart AI Controller — Fall 2020
- Designed an aggressive agent in a racing simulator to consistently win a 2v2 hockey game versus the computers AI
- Worked in a reinforced learning environment to build an FCN model with UNET architecture
- Agent could recognize hockey puck to protect and score goals
- Skills: Python and PyTorch

MagniFind – Finalist for HackDFW with Machine Learning and Facial Recognition Application — Spring 2019
- Implemented an interface that allows cameras to track objects and people in real time
- Responsible for Android front-end of the program that allowed users to interact with the database of objects
- Skills: Python, Flask, Heroku cloud platform, MongoDB, Google Vision Machine Learning, Azure Facial Recognition

IronHand - $500 Prize Winner for Gesture and Voice Recognition Application — Fall 2019
- Architected an interface that allowed users to operate a computer using gestures, voice commands, and signals
- Responsible for developing gesture detection and speech to text recognition
- Skills: Python and Open CV

Seva Charities – Mobile App — Spring 2020
- Developed a mobile app for tracking involvement, sending notifications, and viewing events for 200+ students
- Skills: Firebase, React, and other Google Frameworks

LEADERSHIP EXPERIENCE AND ACTIVITIES

Seva Charities, Austin TX – *Technology Officer, Senior Advisor* — Spring 2020 – Present
- Carried out all technology tasks including maintaining official website, mobile app, and building tech infrastructure for events
- Increased involvement and donations to charitable organizations including Akshaya Patra, Reclaim the Block, and AJC

Code Orange, Austin TX – *Member* — Fall 2018 – Present
- Assist kids ages 5-8 with early exposure to computer science by working on assignments with Code.org, Scratch and Python

ADDITIONAL INFORMATION

Languages: Proficient in Java, Python, Kotlin, JavaScript and exposure to C++, C, TypeScript, and HTML, Clojure
Other Languages: Hindi (fluent), Spanish (6 years - classroom)
Work Eligibility: Eligible to work in the U.S. with no restrictions