

TANMAY SINGH

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EDUCATION

The University of Texas at Austin Major: B.S. in 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

- 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

- 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
- Skills: Java, Python, Apache Maven, TestNG, Jenkins

PROJECTS

Personal Website Summer 2022

- Built personal website that highlights programming skills and contains links and source code for relevant projects
- Skills: JavaScript, HTML, CSS

Social Media App (Twitter Clone) Summer 2022

- Created a fully responsive social media app with posting, commenting, and liking functionality
- Executed Google Sign-in user authentication using NextAuth.js to display user profile data
- Skills: Next.js, React, JavaScript, Tailwind CSS, Firebase

FindIt Summer 2022

- Designed a movie searching platform with filtering capabilities that fetches data from the OMDb movie API
- Skills: React, HTML, CSS

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

Seva Charities – Mobile App Spring 2020

- Developed a mobile app for tracking involvement, sending notifications, and viewing events for 200+ students
- Skills: Firebase and React

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 OpenCV

LEADERSHIP EXPERIENCE AND ACTIVITIES

Seva Charities – Technology Officer, Senior Advisor Spring 2020 – Present

- Carried out all technology tasks including website upkeep, updating 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 – Member Fall 2018 – Spring 2022

- 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, HTML and exposure to C++, C, TypeScript, and Clojure

Other Languages: Hindi (fluent), Spanish (6 years - classroom) | **Work Eligibility:** Eligible to work in the U.S. with no restrictions