**­­Edu­­­­cation­­­­**

The University of Texas at Dallas

Honors B.S. in Computer Science, Exp. Grad 2020

**GPA: 3.95 / 4.0** ­- Dean’s List Fall 2017, Spring 2018

Phi Kappa Phi Honors Society

- Maintained a GPA in the top 10 percentile among those with junior standing

Computing Scholars Honors Society

- Selective honors that only accepts 30 CS students in each cohort

**Languages & Tools**

* Java - 5+ years of experience, 2D game development, Java Network Sockets, AWT Graphics, Image processing, Text manipulation and parsing, Understanding of abstract classes & interfaces
* C++ - 2 years of experience, 3D simulation, Strong OOP knowledge (virtual functions & inheritance types), Familiarity with pointers, memory cache hits/misses, etc.
* Python - 2 years of experience, Scripting knowledge, Some OpenCV, Keras & Tensorflow
* Node.js - 1 year of experience, Familiarity with Express, HTTP requests, Some API design, Web3.js
* Git - 3 years of experience, used in version control on 10+ sizeable personal & team projects, familiarity with dealing with multiple branches, merging (& conflicts), rolling back, etc.

**Professional Experience**

**Intel Corporation**  June 2018 – Present

Undergraduate Technical Intern

* Wrote an automated script to clean and link over 200,000 lines of CSV position data with a raw HTML data file, extracting and summarizing over 10 relevant features
* Built various Java, R, & Python heatmap visualizations for the position data read from the CSV file
* Designed a Python framework to optimize camera rotation angles for pixel quality in Maya CAD models
* Realized 7x speedups in the optimization framework by implementing a simple data caching mechanism to prevent redundant matrix computation
* Wrote & tested a lightweight 4D linear algebra library to simulate view model transforms and camera projections
* Massively cut optimization runtimes by a factor of 400 by designing a novel, standalone C++ command line executable to replace an existing Maya plugin (from 191 to .387 seconds)
* Currently developing a pipeline to automate data cleaning, data input, external optimization, and data output

**Valencian Digital** May 2018 – October 2018

Backend Architect & Developer

* Designed the Node.js server architecture, NoSQL Firestore database structure, & client-server communication schema for RotoHive, a crypto-based fantasy football website hosted with Google Cloud Platform
* Wrote abstraction layers to easily interface with the Firestore database & the Ethereum blockchain network with Web3.js with higher level promise-based functions
* Designed & tested event listeners to drive autonomous server functions like rewards handling, blockchain tournament creation & termination, fantasy performance evaluation, and database state management
* Meet weekly with colleagues to discuss recent progress, relevant tasks, & held individual meetings to sort communication schema when necessary
* Delivered on a short timeline and thrifty budget compared against comparable full-stack web applications
* Currently handling dozens of people and hundreds of ERC20 token transactions on a weekly basis
* Publicly hosted at <https://www.rotohive.com>

**Software Projects**

[**American Sign Language to English Translation**](https://github.com/Abhishaike/ASL_Translation) Jan. 2018 – April 2018

Computer Vision & Machine Learning Research

* Collaborated in a team of 5 to develop a full-stack application that analyzes a webcam stream to extract American Sign Language symbols and translate them to the English alphabet using Python with OpenCV & Keras
* Tested and evaluated different features extraction pathways including real-time contour segmentation and foreground/background recognition using OpenCV
* Designed the final project architecture & data flow between the convolutional neural networks and the Django/Flask front-end webpage

[**Engineering Projects in Community Service**](https://github.com/AneeshSaripalli/EPICS-2100-Project) Jan. 2018 – Present

Project Leader, React Native Developer, Backend & Database Architect

* Designed and implemented the first draft of a cross-platform mobile application meant to reduce wait times & streamline the appointment registration process for a 501(c)(3) using React-Native, MySQL, & PHP
* Wrote a PHP backend for a server endpoint that interfaces with the mobile application to allow users to sign up for appointments in advance and prevents double-booking

**Activities, Awards, & Honors**

**Activities:**

* Dallas Blockchain Club Vice President
  + - Designed & advertised flyers for club events
    - Communicated with other clubs to host joint technology events
  + HackUTD Industry Coordinator
    - Corresponded with industry contacts to raise $2,500 for HackUTD Spring 2019 (on-campus hackathon)
  + AI Society Technology Coordinator
    - Working with other officers to arrange workshop events relating to AI

**Awards:**

* Erik Jonsson Engineering Scholarship
  + Awarded twice after a holistic review consideration including academic merit
* Mustang Technology Scholarship
  + Award due to academic merit
* UIL Regionals Qualifiers
  + Placed in the top 15 in the region in Computer Science, Mental Math, & Math after placing 2nd, 2nd, and 3rd, respectively, in districts
* 1st place at UTD Hacks for Humanity
  + Designed an elegant social good app using React Native that allows people to rate locations based on accessibility to those with disabilities – comparable to a Yelp specifically for accessibility
  + Uses Google Maps API to display the map & Google Firebase to store the reviews & ratings
* 2nd place at T-Mobile Hacktober
  + Developed a novel application that automatically summarizes conversations between customer service agents & customers using Google NLP & IBM Bluemix and stores them in Google Firebase
  + Integrated retrieval functionality that allows any agents to retrieve these summaries when the customer calls again, preventing the need for the customer to repeat themselves for every representative
* 3rd place at Johns Hopkins’ HopHacks
  + Built a social good app using React Native that allows communities to help themselves after natural disasters by allowing those less affected to offer available goods & donations, while allowing those more affected by the disaster to easily search for donations via keywords