# ­­Edu­­­­cation­­­­

Honors B.S. in Computer Science, The University of Texas at Dallas

Expected Graduation May 2020, GPA: 3.97/4.0 ­- Dean’s List Fall 2017, Spring 2018, Spring 2019

# Languages & Tools

Java, C++, Docker, Nodejs, Express, React + Redux, JavaScript, TypeScript, Solidity, Python, Git, SQL, NoSQL

# Professional Experience

## BuskHotel *(contract work)*, Full-stack Engineer December ’19 – Present

* Developed the front-end client in React and Redux for statement management
* Leveraged Google and Facebook OAuth with Passport.js and React JWTs to handle user authentication
* Integrated with Agoda’s hotel API to access real-time hotel price, availability, and redirect links
* Utilized WebSocket two-way communication to implement autocomplete in the hotel query widget
* Built REST API endpoints on the Nodejs, Typescript server to forward location queries to ElasticSearch and return the relevant hotels
* Stored user profiles in AWS DynamoDB to offer more personalized and relevant hotel deals
* Deployed service to AWS EC2 and used Route53 for domain management

## Toyota, Backend Engineer August ’19 – Present

* Working in a multidisciplinary team to design a blockchain solution for Toyota’s supply chain tracking system
* Utilized Json Web Tokens for user login sessions and API authentication to secure endpoints
* Exposed authenticated REST API endpoints on the Nodejs Express server for the client
* Designed a dynamic backend to read from CosmosDB and write to both the Quorom node and CosmosDB
* Leveraged strong typing in TypeScript by integrating inversify.js to streamline dependency injection
* Set up the Mocha testing framework with mocking to unit test backend express routes and data processing
* Demoed the project to Toyota North America’s CIO and Toyota tech and supply chain leadership

## Amazon, AWS Organizations, Software Development Engineer Intern May – August ‘19

* Wrote a service design document and tracked project progress during biweekly team sprint planning
* Developed a service to aggregate data from internal sources to simplify resource identification
* Leveraged ElasticSearch for high scalability and partial and full text matching against document fields
* Designed an SQS pub/sub notification poll daemon to process and update the ElasticSearch store
* Integrated JUnit and Mockito for class-comprehensive unit testing for expected behavior and input resilience
* Deployed the service to the beta stack and presented the service to my organization

## Intel Corporation, Undergraduate Technical Intern June ‘18 – May ‘19

* Developed a Python framework to optimize pixel quality in stadium CAD models using Maya’s Python API
* Realized 7x speedups in the optimization framework by implementing a simple data caching mechanism
* Wrote a 4D linear algebra library to simulate view model transforms and camera projections
* Reduced optimization runtimes by 400x after migrating framework to C++11 (191 to .387 seconds)

## RotoHive *(contract work)*, Backend Engineer May – October ‘18

* Designed the Node.js server architecture, Firestore database structure, and API communication schema to interact with the React front-end client
* Wrote listeners to automate business logic like ERC20 token and Ethereum rewards distribution, user performance evaluation, and database state management