

## Education

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B.S. in Computer Science, The University of Texas at Dallas, May 2020. GPA 3.96 / 4.0

## Languages & Tools

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Kubernetes, Docker, Nodejs, React, Redux, Java, C++, JavaScript, TypeScript, Python, SQL

## Professional Experience

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Waymo, Software Engineer June '20 – Present

- Designing and iterating on the realistic log simulation system at Waymo

Toyota, Backend Engineer Aug. '19 – Dec. '20

- Working in a multidisciplinary team to design a blockchain solution for Toyota's supply chain tracking system
- Implemented API endpoint authentication and authorization using server encrypted JSON web tokens
- Reduced server load by using CosmosDB as a read cache and double writing to Quorum and Cosmos
- Demoted the project to Toyota North America's CIO and Toyota tech and supply chain leadership

Amazon Web Services, SDE Intern May – Aug. '19

- Simplified AWS Organization resource location by allowing for users to search by attributes and substrings, ex. finding AWS accounts by account ARN and finding policies based on content
- Wrote a service design proposal to document service internals and offer a pipeline to future productionizing
- Developed a service to aggregate data from internal sources to simplify resource identification
- Integrated JUnit and Mockito for class-comprehensive unit testing for expected behavior and input resilience
- Deployed the service to the internal 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 program runtimes by 400x after migrating framework to C++11 (191 to .387 seconds)

## Client Projects

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3IE.IO May – June '20

- Leveraged the Material UI React component library to build a reactive, dynamic front-end client
- Built out Java microservice with Guice and Lombok to communicate with Hedera Consensus Service
- Designed backend Nodejs REST API routes to connect the React client with the MongoDB backend
- Setup Kubernetes CI/CD from Github through TravisCI to Google Kubernetes Engine (GKE) using GCR images

BuskHotel Dec. '19 – June '20

- Designed a full-stack web application with a React front-end client and Nodejs API server
- Integrated with Agoda's hotel API to access real-time hotel price, availability, and redirect links
- Utilized Elasticsearch for user-side hotel name autocomplete functionality
- Leveraged AWS services (DynamoDB, Route53, and EC2) for quick and scalable deployments

RotoHive May '18 – Oct. '18

- Designed the Node.js server architecture, Firestore database structure, and API schema for the React client
- Wrote logic to control Ethereum rewards distribution, fantasy performance evaluation, and database state