Aneesh Saripalli

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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)

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