Aneesh Saripalli

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Education

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

Expected Graduation **December 2020**, **GPA: 3.96/4.0** - Dean's List Fall 2017, Spring 2018, Spring 2019

Languages and Tools

Java, C++, Python, React, JavaScript, TypeScript, Node.js, React Native, Git, ElasticSearch, DynamoDB, CosmoDB

Professional Experience

Toyota, Software Developer — August '19 – Present

- Working with Toyota to develop a supply chain system MVP for their manufacturing processes
- Built a Typescript Node.js server with Express to expose authorized API hooks for the front-end
- Utilized Json Web Tokens for user login sessions and API authentication to secure endpoints
- Collaborated with the front-end team to set up API GET and POST endpoints for workflow management
- Stored data in CosmsoDB to facilitate quick schema changes and database redesigns
- Leveraged TypeScript strong typing 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

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 for AWS Organizations that pulls from internal data services and allows for data querying
- Designed an SQS pub/sub notification poll daemon to process and update the ElasticSearch document store
- Reviewed and refactored code due to suggestions proposed in team-wide code reviews
- Leveraged ElasticSearch for high scalability and partial and full text matching against document fields
- Integrated JUnit and Mockito for class-comprehensive unit testing for expected behavior and input resilience

Intel Corporation, Undergraduate Technical Intern — June '18 – May '19

- Designed an interactive Java GUI to track players and visualize game movement to analyze patterns in CSV data
- 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)

Valencian Digital, Backend Developer — May – October '18

- Designed the Node.js architecture, NoSQL Firestore database structure, and API communication schema
- Wrote listeners to automate business logic like rewards handling, user performance, and database CRUD
- Used Web3.js to interact with the Ethereum smart contracts to manage the token rewards process

Texas Analog Center of Excellence, Undergraduate Researcher — January - May '19, August '19 - Present

- Reduced runtimes by 6 hours by altering the C++ image processing routine, allowing parallelization
- Used OpenCV and AprilTag (QR code-like) investigate the relationship between head-pose and driver gaze
- Unified 8 Python and C++ processes into in a single multithreaded data pipeline, increasing usability

Activities & Clubs

- Dallas Blockchain Club Vice President: Leader a mentorship program directed towards teaching the ideas required to manage and create a tech-product based startup. Hosting weekly technical interview preparation classes. Promoted technical club events including our workshops and hackathons.
- ACM Director of Labs**:** Built a website using React, Node, & Typescript on AWS DynamoDB and S3 to help students get their resume to recruiters. Currently hosting resumes for over 100 UTD students.