

Education

B.S. in Computer Science, The University of Texas at Dallas, 2017 - 2020. GPA 3.96 / 4.0

Languages & Tools

C++ 11, Nodejs, Nginx, Docker, React, Java, TypeScript, Python, various SQL and NoSQL databases

Professional Experience

Waymo (formerly Google self-driving car), Software Engineer June '20 - Present

- Relevant skills: C++ 11, SQL, Python, Protobufs, gRPC, Spanner, general system design
- Saved ~\$XX million by creating a distributed cache to save and reuse vehicle perception
 - Supported ~2 billion simulations per month
 - Unlocked ML model training on fresh perception data at previously impossible scales
 - "I would credit most of the improvement to this cache" - ML model training owner
 - Created automated release processes to create, validate, and deploy new cache versions
- Reduced simulation scheduling times by over 80% by parallelizing work item creation
- Ran data replication policy experiments to reduce e2e job latency times by ~50% (12h to 8h)
- Worked with simulation infra users to unblock them and improve their velocity as required
 - Became a go-to member for debugging simulation infrastructure across the stack
 - "Anyone at Waymo who builds tools used by customers should use Aneesh as their role model." - Senior SWE on Planner

Toyota, Backend Engineer Aug. '19 - Feb. '20

- Relevant skills: Nodejs, REST, Auth (JWT), Cosmos, Quorum (blockchain)
- Removed read-side bottleneck by dual-writing to Quorum and Cosmos and read from Cosmos
- Demoed to Toyota North America's CIO

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

- Relevant skills: Java, JUnit, Mockito
- Wrote a service design proposal to document the service and production interface

Intel, SDE Intern June '18 - May '19

- Relevant skills: C++ 11
- Reduced program runtimes by 400x after migrating Python application to C++11 (~200s to .5)

Select Client Projects

3IE.IO, Full-Stack Role

- Relevant skills: React, MUI, Nodejs (express), MongoDB, and a K8s deployment on GCR
- Created a TravisCI deployment pipeline to improve the CI/CD process

BuskHotel, Full-Stack Role

- Relevant skills: Web app using React, Nodejs (express), ElasticSearch, and Redis on AWS
- Reduced PLT to sub-2s by resizing images, improving encoding (webp), and fixing caching policies