# ­­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