

# Brandon Nguyen

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## EDUCATION

**Texas A&M University**, College Station, Texas  
Bachelor of Science - Computer Engineering  
GPA | 3.478 / 4.000

*Aug 2019 - Dec 2023*

**Relevant Courses:** Database Systems, Distributed Systems, Information Retrieval (Current), Machine Learning (Current)

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## EXPERIENCE

### American Airlines

*May 2023 - Aug 2023*

#### Software Engineering Intern

- Worked in team to maintain application that processes and verifies integrity of 1,000,000+ bookings daily using *Spring*
- Followed agile methodology to meet business needs and create necessary user stories to support application health
- Identified and successfully aggregated decentralized production and stage logs with flow of over 100 GB/month using *Mezmo* and *NiFi* to enhance overall system monitoring capabilities across 7 servers

### Texas A&M University Transportation Services

*Jun 2022 - May 2023*

#### IT Student Technician

- Developed ticket generation process for servers and workstations that had not been patched in 14 days using *Python*
- Increased efficiency of existing script which monitored health of SSL certificates by 20%

### Samsung Austin Semiconductor

*Jun 2019 - Aug 2021*

#### Innovation Apprentice

- Generated weekly metrics from DataLake using Python libraries: *matplotlib* and *pandas* to illustrate costing savings
  - Deployed web application to support tracking of 100+ items in electronic repair backlog and promote direct communication with customers from all business units
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## SKILLS

**Languages & Databases:** Python, Java, JavaScript, C++, PostgreSQL, MSSQL, MongoDB

**Frameworks & Protocols:** Django, Node.js, React.js, Vue.js, gRPC, Hadoop, Spring Boot, Docker

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## PROJECTS

### Distributed Tiny SNS Application (Distributed Systems Course)

- Developed a fault tolerant and highly available SNS application in C++ using *gRPC* supporting multiple server clusters
- Allowed users to post to a timeline allowing subscribers to see user's past timeline posts as well as current live posts
- Designed application be able to handle multiple master server failures and be able to synchronize all clusters' files

### Spotitube (Personal)

- Developed web application that would copy playlists from Spotify to YouTube using *Express.js* and *React.js*
- Accessed Spotify API to get current user Spotify playlists and YouTube API to search for songs in the user's Spotify playlist to then create the user's playlist in YouTube

### Rev's American Grill Web Application (Programming Studio Course)

- Led project development as the project manager and SCRUM master using Agile methodology
  - Integrated Twilio API notifying customers through SMS when their order is placed and when the order is ready
  - Developed a two-in-one solution featuring kiosk and POS views while including a manager dashboard using *Express.js*, *React.js*, and *PostgreSQL*
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## EXTRACURRICULARS

**Society of Asian Scientists and Engineers**

*Aug 2021 - Present*

**Institute of Electrical and Electronics Engineers**

*Jan 2022 - Present*