

# Aayush Garg

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## EDUCATION

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**Texas A&M University | Craig and Galen Brown Engineering Honors** College Station, TX  
*Bachelor of Science in **Computer Science** with Minor in **Statistics*** **May 2026**  
**Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Competitive Programming, Computer Systems, Computer Architecture, Machine Learning, Cloud Comp., Computer & Network Security, Database Systems  
**Organizations:** Texas A&M Computing Society, Aggie Competitive Programming Club, Aggie Guide & Service Dogs

## EXPERIENCE

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**Incoming Software Engineering Intern** Sept. 2025  
*NVIDIA* Santa Clara, CA

**Software Engineering Intern** May 2025 - Aug. 2025  
*Microsoft* Redmond, WA

- Built a **full stack live-site assistant** through **autonomous agents** via C# backend and React teams bot
- Utilized **Azure AI Search**, Prompt Engineering, Semantic Kernel, and **Agentic Orchestration** patterns to find relevant trouble shooting guides, execute KQL queries, and stream responses to the On-Call Engineer (OCE)
- **Decreased 80% of time spent by OCEs** on incidents and **built E2E evals** to ensure high accuracy of agents

**Software Engineering Intern** May 2024 - Aug. 2024  
*Microsoft* Redmond, WA

- Implemented **critical fix to preserve last known good state of policies** for device groups in Microsoft Intune using C#/.NET framework, **impacting over 500 million user devices** and resolving a client-facing issue
- Developed signaling system for policy computation completion, enabling sequential group policy updates
- Worked on **Ring 0 Core Infra**, contributing to monolith and microservices architectures under GnT

**Quality & Software Engineering Intern** Jun. 2023 - Aug. 2023  
*Lockheed Martin* Fort Worth, TX

- **Streamlined investigation processes** by developing software with Selenium and BS4, arranged in documents to **reduce time spent** in daily morning meetings **by approximately 75% (2 hours to 30 minutes)**
- **Leveraged Tableau and SQL for data extraction and visualization** in 50+ categories every month to provide updates to the F-35 Flight Line operations director

**Teaching Assistant** Jan. 2023 - May 2024  
*Texas A&M University, College of Engineering* College Station, TX

- **Mentoring 400+ students** and helping in the understanding of class material, focused on Python
- Supporting a professor in grading exams/labs, deliver detailed feedback to help students improve knowledge

**President** Oct. 2022 - May 2025  
*Texas A&M Computing Society (ACM Chapter)* College Station, TX

- **Develop and present** technology workshops (10+) **for 100+ students**, to help teach fundamental concepts
- **Organized 200+ person hackathon** event (twice), Build4Good, to enable development in areas of good

## PROJECTS

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**PeerEdu** | *React, Flask, sockets, Electron, OpenCV, Javascript, Locust, Redis, MongoDB* Mar. 2023 - Apr. 2025

- Developed a **React-Flask web app** and **Electron desktop app**, utilizing **Locust** for stress-testing
- **Uplifted server efficiency by 80% using Redis**, utilizing **MongoDB Cluster** for data retrieval/storage
- Launched an **AI-assisted learning platform** to enhance student-teacher engagement, enable **anonymous Q&A** and provide support for **auto generated live polling questions** for 200+ students

**Glaid** | *Flask, Python, Azure, Docker, CockroachDB, HTML/CSS, Javascript* Jan. 2023 - Aug. 2023

- Built a website for **generating study tools** such as flashcards and quizzes from notes and audio using **NLP**
- Integrated OCR technology for creating the study tools and developed a chatbot using embeddings
- Attracted **5,000+ users** and earned **\$5,000 in grants** from the I-Corps NSF Program at Texas A&M University

**NFL Data Bowl** | *Excel, Python, Pandas, scikit-learn, matplotlib* Nov. 2022 - Jan. 2023

- Organized and consolidated data from **10+ Excel files** to a comprehensive output file tailored to certain metrics
- Applied **K-Means Clustering** to categorize the created variables and calculate specific pressure for each cluster
- Trained a **ML model** with **5 new variables** and pressure values to predict output pressure accurately

**Bloomberg INDG Challenge** | *CockroachDB, Python, Pandas, SQL Alchemy* October 2022

- Utilized a **Bloomberg API** to **request embeddings** from **100k+ articles** and stored them on CockroachDB
- **Compared 5 mystery embeddings** to the database and adopted **Cosine similarity** to find relative similarity

## TECHNICAL SKILLS

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**Languages & Frameworks:** Python, C#, C/C++, Java, JavaScript, HTML/CSS, NoSQL, Flask, React, Electron  
**Developer Tools:** Azure, Redis, Docker, Google Cloud, Ubuntu, Linux, Git, CI/CD Pipeline, Locust, Hetzner  
**Libraries:** Selenium, BS4, sockets, pandas, numpy, MongoDB, CockroachDB, Tesseract