Kush Gupta

kushgupta.dev | 972-800-4922 | kushg@tamu.edu

Education

Texas A&M University | *B.S. Computer Science*   **Aug 2022 - May 2026**

GPA: 3.6

Courses: Data Structures & Algorithms, Object-Oriented Programming, Database Design, Computer Architecture

Honors: President's Endowed Scholarship (awarded to 25 out of 70,000 students) for academic and extracurricular distinction.

Professional Experience

TAMU Faculty Affairs | *Software Development Intern*   **Apr 2024 - Aug 2024**

- Automated the retrieval and organization of 8,000 faculty files using Python scripts and Power Automate workflows, streamlining data availability across 24 departments.
- Reduced data processing time by 85%, saving over 20 hours/week and $20,800 annually in labor costs.

Discover AI | *Student Researcher*   **Sep 2023 - Dec 2023**

- Analyzed 200,000+ social media posts using NLP pipelines and supervised machine learning models.
- Achieved 82% sentiment classification accuracy, enabling data-driven adjustments to marketing strategy.

Allen Tutors Elite | *Founder*   **May 2020 - July 2023**

- Managed a team of tutors to help 250 clients achieve their goals in Computer Science and SAT.
- Improved scores by 45% on average within 3 months, with 100% of clients reaching their target proficiency.

Leadership

A&M BUILD | *Command Team Lead*   **Jan 2024 - Present**

- Directed the development of Texas Aggie Medical Clinics (TAMCs), deployed to provide medical services for 25,000+ civilians in underserved countries including Haiti and Nigeria.
- Managed a $50,000 budget and established global partnerships with suppliers such as Home Depot to reduce materials costs by 40%, enabling the construction of 11 emergency clinics to date.

Computer Science Club | *Board Officer*   **Oct 2022 - Mar 2024**

- Organized 23 community events and 6 national hackathons hosted at Texas A&M University.
- Elected onto the board to expand outreach, resulting in 50% membership growth over 2 years.

Robotics | *Lead Programmer*   **Aug 2019 - May 2022**

- Spearheaded the programming of a $10,000 robot that utilized PyTorch for real-time object detection with 97% accuracy, earning international finalist honors in the FRC Championship.

Projects

Mugdown Cafe | *Full Stack Developer*   **Feb 2025 - May 2025**

- Led the Agile development of a full stack Point-of-Sales system with session-based routing, supporting 3,000+ weekly orders.
- Designed modular cashier, manager, and customer interfaces with Node.js state management; integrated Google OAuth and a custom Meta Llama 3.2 AI chatbot to streamline login and order flows.
- Deployed a scalable PostgreSQL schema on AWS to handle real-time transactional queries.

RenoVision | *Principal Backend Developer*   **Sep 2024 - Jan 2025**

- Engineered an Augmented Reality app in Swift using ARKit for real-time 3D property scans, cutting down manual inspection time by 50% and saving $6,000 monthly.
- Developed a GCP backend with Flask, Vertex AI, and Firestore database to automate property diagnostics.
- Trained a Tensorflow model on 18,000 samples to assess property conditions with 95% accuracy, generating narrative reports with OpenAI and LangChain.

Eagle Scheduler | *Systems Integration Lead*   **Mar 2022 - Feb 2023**

- Directed the development of a Java-based scheduling platform adopted by over 6,000 students, reducing scheduling errors by 70%.
- Normalized course data and collaborated with AISD Administration to index 450+ offerings into a searchable MySQL database.

Skills

Languages: C++, Python, Swift, JavaScript, SQL, Java
Frameworks and Tools: Git, ARKit, Flask, Node.js, PyTorch, TensorFlow, LangChain, Google Cloud, AWS