

# Alexander Bui

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## EDUCATION

### Texas A&M University

College Station, TX

*Bachelor's of Science, Computer Engineering, GPA: 4.0*

*May 2027*

- Craig and Galen Brown Engineering Honors, Dean's Honor Roll
- Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Intro to Computer Systems, Program Design and Concepts, Intro to Digital System Design, Electrical Circuit Theory, Linear Algebra

## WORK EXPERIENCE

### AI/ML Software Engineer

Jun 2025 — Present

Texas Cyber Range

- Orchestrated agentic AI workflows with LangGraph to automate customer support, integrating RAG pipelines and Qdrant vector stores for real-time context retrieval, reducing average ticket resolution time by 500%.
- Designed a containerized microservices architecture deployed on OpenShift (Kubernetes), utilizing Docker and CI/CD pipelines for automated container builds and scaling.
- Built a custom React dashboard for human-in-the-loop agent oversight, enabling support staff to review and edit AI drafts.

### Student Technician

Aug 2025 — Present

Texas A&M University

- Triaged cybersecurity incidents across a large-scale academic network, utilizing Elastic to correlate network logs and identify Indicators of Compromise (IOCs).
- Leveraged Oort for identity-based threats, specifically mitigating account takeovers and MFA bypass attempts.
- Reduced alert fatigue by filtering false positives and documenting remediation procedures for common threat vectors.

### Undergraduate Teaching Assistant

Aug 2025 — Dec 2025

Texas A&M University

- Enhanced student learning for a class of 30 students by clarifying topics from coding lectures and conducting weekly office hours to assist students one-on-one with debugging Python lab assignments and understanding software concepts.

### Software Engineer Intern

Jan 2025 — Aug 2025

GravityIntel

- Engineered a full-stack web application leveraging agentic AI to automate the analysis, management, and evaluation of government contract bids.
- Architected a hybrid data solution using PostgreSQL for relational data and Couchbase for NoSQL and high-performance vector search to manage complex bid information.

## PROJECTS

### Aggie Events | *React, NextJS, ExpressJS, PostgreSQL, Docker*

Sep 2024 — Present

- Built a REST API backend with Node.js, Express.js and PostgreSQL capable of handling complex search queries.
- Engineered robust authentication and session management systems with OAuth 2.0 to safeguard user interactions.
- Enhanced website deployment speeds by 250% through a custom CI/CD pipeline using Docker and Bash.
- Streamlined tasks for a 27-member team using Agile methodologies, earning **Best Project Manager** for Fall 2024.

### OpenGL Graphics Engine | *C++, OpenGL, CMake*

Apr 2023 — Present

- Built a graphics pipeline from scratch using OpenGL and C++, implementing rendering with an Entity-Component-System (ECS) architecture, supporting lighting, textures, and custom model loading.

## SKILLS

- **Technologies:** C/C++, JavaScript, Python, SQL, Java, TypeScript, HTML/CSS, React, NextJS, Node.js, ExpressJS, PostgreSQL, Docker, CUDA, Git, Linux, OpenGL, Bash
- **Awards:** 1st TAMUHack 2025 (Toyota), 2nd TAMU Datathon 2025 (Hitachi), 2nd TAMUHack 2025 (AA), 3rd Datathon 2024 (TAMIDS), Cyberpatriot National Platinum Semifinalist