

Hasan Yousuf

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EDUCATION

Texas A&M University

Dec 2026

Bachelor of Science in Computer Science

EXPERIENCE

Dell Technologies CSG – Software Engineering Intern; Austin, TX

May 2026 – August 2026

- Architected and implemented a containerized execution platform using Docker, Kubernetes, and Dell Artifactory, routing workloads from Dell's internal agentic harness into isolated environments supporting software and workflows used by 100,000+ users.
- Developed an autonomous penetration-testing agent to identify, validate, and report security vulnerabilities across Dell code repositories, improving the security assessment process for enterprise development teams.
- Built a scalable container-pool management system using C#, Docker, and Kubernetes, enabling administrators to provision hundreds of fully customizable environments with selected repositories, dependencies, software packages, and runtime configurations.

Ducki (Startup) <https://ducki.ai> – Software Engineer; Austin, TX

May 2024 – April 2026

- Implemented retrieval augmented generation (RAG) to create personalized AI tutor to improve learning & retention by 15%.
- Conducted 3-5 user interviews weekly and iterating on feedback to better align product features with user needs.
- Spearheaded a team of interns to create key features such as quick learning sessions, voice-to-text, OAuth, and pdf splitting using AWS, Next.js, and tRPC.

Citi ICG Technology – Software Development Intern; Austin, TX

May 2025 – August 2025

- Developed a Java-based tool to visualize real-time stock market risk, increasing monitoring speed by 50% and supporting daily decision-making for a portfolio valued at \$2M+.
- Wrote 80+ comprehensive unit and integration test cases using JUnit and Mockito for the Java-based stock risk visualization tool, increasing code coverage to 95% and ensuring robust system reliability in production.
- Created a detailed UML state diagram for the loan management process, streamlining system design and enhancing cross-functional collaboration.

LEADERSHIP & INVOLVEMENT

Paradigm Men's Organization – Treasurer

Sept 2024 – May 2026

- Managed the organization's budget, maintain accurate records of income and expenses, and ensure transparency in all financial matters.
- Oversee dues collection, fundraising efforts, and event budgeting to maximize impact while staying within financial constraints.
- Provide regular financial updates to leadership and members, ensuring clear communication and compliance with university guidelines.

Aggie Coding Club – Co-Project Lead

Oct 2023 – Present

- Created a full-stack boilerplate application leveraging TypeScript, Express, and Puppeteer for streamlined web scraping, incorporating REST APIs and user authentication for a robust development foundation.
- Collaborated with frontend teams to integrate Tailwind CSS and Bootstrap, ensuring a swift and intuitive design process, supported by Figma-driven layouts.
- Managed data storage and continuous scraping functionalities by establishing a dynamic workflow between frontend, web scraping services, and backend, fostering real-time updates and notifications resulting in a 20% increase in data retrieval efficiency.

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: C/C++, Python, Java, TypeScript, C#, HTML, Next.js, tRPC, SQL, CSS, UML Diagramming

Certifications & Training: AWS Certified Cloud Practitioner, Microsoft Excel, Microsoft PowerPoint

Activities: Aggie Competitive Programming Club, TAMU Fish Camp, TAMUhack, TAMU Consulting