

# JAYANTH GAJULA

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## EDUCATION

### University of Texas at San Antonio

San Antonio, TX

Bachelor of Science in Computer Science | GPA: 3.8/4.0 | Junior

Expected Graduation, July 2026

- Coursework: Android Dev, Game Dev, Enterprise Software Engineering, Python in Data Structures & Algorithms
- Spring & Fall 2024 President's List

## EXPERIENCE

### UTSA Computer Science Reader/Grader II

Jan 2025 – May 2025

University of Texas at San Antonio – Part Time, TX

UTSA Campus, TX

- Reviewed and graded 500+ assignments/exams for 129 students in **Discrete Mathematics**.
- Delivered written feedback on **100+ logic** and **proof-based problems** weekly with **<2% error rate**.
- Improved grading turnaround by 25% while maintaining **100% on-time compliance** throughout the term.
- Assessed coursework across **12+ topics** including **induction, logic**, and **set theory**.

### Software Engineering Intern

Jan 2025 – March 2025

YStem and Chess Inc – Part Time, Boise ID

Remote

- Migrated Angular frontend to **React TypeScript monorepo**, boosting scalability and maintainability.
- Designed reusable **UI components** and enhanced login/register user experience.
- **Collaborated** with **12-person team** via **Slack** and **Figma**, presenting UI designs to enhance student platform UX.

### Python Developer

March 2025 – April 2025

Real Estate Company – Contract, San Antonio TX

Remote

- Built a **Python-based AWS** pipeline using **Lambda, S3, Glacier, Textract**, and **DynamoDB** for scalable image processing.
- Extracted text from real estate images, cutting processing time by 30% and storage costs by 40%.
- Created a secure **React-based** batch uploader with **AWS Cognito**, boosting upload efficiency by 25%.

### Open Source Contributor

Jan 2024 – Feb 2024

FreeCodeCamp Github

Remote

- Resolved test cases in **binary converter** and developer English lessons, enhancing clarity for 10K+ monthly users.
- Refactored **assertion testing logic** across multiple JS lessons, **improving test reliability** and solution flexibility by 30%.
- Resolved race conditions in a **dynamic DOM** manipulation project, so UI elements render only after async fetch success.
- **Partnered** with global maintainers and followed **detailed PR review** workflows for consistent **code quality**.

## PROJECTS

### Ungithub | Next.js, Python, FastAPI, LangChain, MongoDB Vector Search, Gemini AI, NLP

May 2025

- Built for **Google Cloud AI Hackathon** partnered with **MongoDB** and **Gitlab**.
- Developed an AI assistant that **explains GitHub codebases** via chat using **LangChain & Gemini AI**, completely free.
- Chunked and embedded **1000+ code files** from **10+ repos** (tier limitations) for semantic search with MongoDB.
- Delivered vector search latency **under 300ms** with optimized **FastAPI + Atlas index** configs.
- Led a 3-person team to align AI features/UI with feedback, mentored juniors, and achieved 95% query accuracy.

### Aurable | Next.js, Convex, Gemini AI, Sandpack, PayPal API, Figma

May 2025

- Built a **no-code** web app builder powered by **Gemini AI**, natural language prompts and **Google OAuth 2.0**.
- Integrated **live code editing** with Sandpack, scaled to free-tier limits (100+ users, 20+ builds/day) at 99% reliability.
- Enabled temporary deployment and **PayPal API monetization**, reducing user setup time by 70%.
- Prototyped frontend **UI/UX** with **Figma** and shipped reusable components, for AI query interactions.

### Floor 8 | Unity3D, C#

Jan 2025 – May 2025

- Designed a **3D** first person **psychological horror** game with **10+ scripted anomalies** and **8 unique event triggers**.
- Implemented **5,000+ lines** of **C#** code to drive player mechanics, state transitions, and scene logic.
- Built 10+ immersive environments **using custom 3D assets, prefabs**, and real-time lighting systems.

## SKILLS

**Languages:** TypeScript, Python, C, C++, C#, Java, SQL

**Frameworks & Tools:** React, Next.js, Node.js, Express, GraphQL, tRPC, Jest, Vitest, Zod, Tailwind CSS, SASS, Gemini AI, NLP

**Cloud & DevOps:** AWS (Lambda, S3, Textract), Docker, Kubernetes, Firebase, GitHub Actions, Nginx

**Data & Utilities:** MongoDB, PostgreSQL, MySQL, Redis, Prisma, DynamoDB, LangChain, NLP, Unity3D, Git, Linux, REST