

Sandeep Kandrigi

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EDUCATION

Texas A&M University

August 2023 - May 2027

Bachelor of Science in Computer Science | GPA: 3.72/4.00

College Station, TX

- **Coursework:** Data Structures and Algorithms, Linear Algebra, Discrete Math, Calculus 3, Foundations of Software Engineering, Databases, Computer Organization, Computer Systems, Programming Languages
- **Awards:** Dean's Honor Roll, Distinguished Student

EXPERIENCE

Software Engineer Intern

May 2025 - August 2025

IBM

Austin, TX

- Saved **\$1K+** annually by replacing commercial graphing library with custom **45K+ LOC JavaFX** package
- Increased system uptime to **99.9%+** by implementing error handling and retries in **Spring Boot** microservices
- Enabled **730+** registrations monthly by connecting cloud **MongoDB Atlas** with legacy **Java** mainframe system
- Removed redundant data logic and duplicate code across **5** internal tools by expanding shared Java core library

Undergraduate Research Assistant

January 2025 - May 2025

Texas A&M University

College Station, TX

- Optimized **TD3**-based traffic control to decrease vehicle wait time by several seconds during peak load simulations
- Fine-tuned **SAC** agents to reduce multiagent collisions in **ManiSkill** environments by **31%** using **PyTorch**
- Trained **PPO** agent to play Space Invaders improving average score by **40%** over base policy with **TensorFlow**
- Boosted robot simulation task success rates by **10%** using agents developed with curriculum learning strategies

Software Engineer Intern

May 2024 - August 2024

UBS Technologies

Dallas, TX

- Developed internal microservice with **Python** and **gRPC** to aggregate user session data from distributed logs
- Improved data ingestion reliability by **40%** with **Celery** with a **Redis** queue for asynchronous batch jobs
- Cut API response time by **300ms** by optimizing PostgreSQL queries via **SQLAlchemy** and connection pooling
- Integrated metrics export pipeline using **Prometheus** and **Grafana** to monitor service latency and uptime

Technical Director

October 2023 - Present

TAMUhack

College Station, TX

- Amassed **10K+** visitors by developing websites for the largest Texas student-run hackathon with **850+** attendees
- Engineered backend of open-source registration system with **30+ GitHub stars** serving **5K** users using **Django**
- Accelerated email dispatch throughput by **4x** with multithreaded processing in registration system's backend
- Implemented internal dashboard for organizers to quickly access day-of information with **React** and **PostgreSQL**

PROJECTS

Motion - Real-Time Quiz App | *Python, FastAPI, PyTorch, TensorFlow, Firebase, Docker*

- Built real-time game by deploying self-hosted **LLM** with REST API to generate quizzes from users **Notion** notes
- Reduced quiz latency by **60%** via request batching, compression, and caching on custom **FastAPI** server
- Engineered scalable **Firebase** architecture supporting **500+** concurrent game sessions with real-time updates
- Containerized backend using **Docker** and deployed via NGINX with over **99.9%** uptime on **DigitalOcean** VPS

Reveille Rewards - Loyalty Program for Small Businesses | *React, Django, Python, PostgreSQL*

- Won **1st place in Small Business Track** at HowdyHack hackathon for building full-stack rewards platform
- Setup backend infrastructure to manage real-time transactions and point updates with **Django** and **PostgreSQL**
- Integrated **OCR functionality** with **Tesseract.js**, improving receipt image text extraction accuracy by **20%**
- Managed **300+** test user sessions with secure cookie-based authentication via Django's built-in middleware

SKILLS

Programming: Java, Python, JavaScript, TypeScript, C++, C, SQL, Shell, Dart, Kotlin, Go

Frameworks: React, Next.js, Django, FastAPI, Node, JavaFX, Spring Boot, gRPC, ExpressJS, Flask, LangChain

Tools: Amazon Web Services, Kubernetes, Pinecone, Docker, PostgreSQL, MySQL, MongoDB, Redis, Git