

Kunal Jain

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Education

Texas A&M University – B.S. Computer Science, Honors

AUG 2022 – MAY 2026

- GPA: 3.84/4.0
- Minor: Philosophy
- Activities: Aggie Data Science Club (Project Manager), TAMU ThinkTank (Developer)
- Coursework: Data Structures and Algorithms, Algorithmic Analysis, Software Engineering, Computer Architecture, Parallel Computing, Human-Computer Interaction, Multivariable Calculus, Linear Algebra

Experience

Thoma Bravo, LP – AI Solutions Analyst Intern

JUN 2024 – AUG 2024

- Made targeted adjustments to company chatbot based on survey data; included file upload functionality using Azure AI Search and a Flask API rewrite to improve response speeds by 50-60% for 220+ employees
- Performed extensive market research on AI solutions and their applications to the private equity field
- Deployed a custom copilot for the investor relations team using Copilot Studio
- Created a proof of concept for a Langchain-based web application using React and Flask that could securely answer questions on uploaded documents without exposing sensitive firm data
- Identified, designed, and developed a solution to automate the investor audit confirmation process using Power Automate and Azure OpenAI, saving 500+ hours of work a year for Executive Assistants

Texas A&M Health Science Center – Full Stack Software Engineer

FEB 2024 – SEP 2024

- Contributed to OliviaHealth, a grant-funded platform enhancing maternal and familial care; Created an EHR system designed to support pregnant/postpartum women at risk for poor outcomes
- Developed an intuitive user interface using Figma, React, Next.js, Typescript, and Tailwind CSS
- Built scalable backend services using Python, Flask, SQLAlchemy, and PostgreSQL

ABC Fitness Solutions – Software Engineering Intern

JUN 2023 – MAY 2024

- Spearheaded the development of a chatbot powered by GPT 4 and Azure AI for semantic query processing
- Created a web application using Flask, React, and Tailwind CSS; optimized app based on company-wide UX surveys and research, increasing conversation duration by 40% and reducing server response times by 150%
- Implemented Microsoft SSO, multi-language support, and country-specific document search; contributed said improvements to Azure's open-source repositories

Ashling Partners – RPA Developer Intern

MAY 2021 – AUG 2021

- Designed software using Python & AWS that modernized the company's reporting by sending process errors for UiPath RPA bots into Slack in real time, 5x faster than the previous email-based system

Projects

Glance | Python, Flask, Langchain, ChromaDB, React, Azure

- A secure Q&A RAG app built using Langchain that stores no permanent data or files

POS and Restaraunt Management System | Python, Java Swing, Postgres, Next.js, Express.js, Jest, Vercel, Figma

- Designed and built two (Java Swing & React) point of sale and management systems capable of storing millions of transactions in a Postgres database queried through an Express.js API
- Ensured WCAG compliance for multiple different accessibility personas, tested the code to 90% coverage using Jest, and created CI/CD pipeline to automate deployments to Vercel

Infrared Tracking | Python, Pytorch, OpenCV, Pandas, Matplotlib

- AI-based infrared tracking for vehicles and pedestrians built using the YOLOv5 computer vision model
- Extracted infrared data from Robot Operating System (ROS) files; trained model with data using Pytorch & OpenCV
- Presented project at the 2023 Texas A&M Engineering Project Showcase

Project Whirlwind | Unreal Engine 4, Python, Blender, Adobe Photoshop

- Lead level developer on an online multiplayer FPS game built alongside 25 students
- Wrote Perlin/Fractal noise generation algorithms; created master materials and landscapes using satellite data

Technical Skills

Languages: Python, C/C++, JavaScript/TypeScript, Java, SQL

Frameworks: React, Next.js, Vite, Node.js, Flask, Tailwind CSS

Technologies: AWS Lambda, Amazon S3, Amazon API Gateway, Azure App Services, Azure AI Services, Selenium, UiPath, Microsoft Power Platform, Git, OpenCV, PostgreSQL, SQLite, Langchain

Design: Adobe Illustrator, Adobe Photoshop, Adobe Indesign, Figma, Blender, Unreal Engine