

Aditya Chandran

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EDUCATION

University of Texas at Dallas

Bachelor of Science in Computer Science, GPA 3.56

Honors: National Merit Scholar, Computing Scholars Honors Student, Collegium V Honors Student

August 2023 – May 2027

Richardson, TX

EXPERIENCE

Software Engineering Intern | Python, OpenAI, Anthropic, Streamlit, Docker, FastAPI, React

Zero5 Inc.

May 2025 – Aug. 2025

The Woodlands, TX

- Designed and implemented generative AI solutions for web automation in the company's transaction gateway (receipt sending and refund automation) in api-unfriendly environments
- Built dashboards to improve non-technical accessibility of the services.
- Containerized services with Docker, enabling cross-platform functionality

Software Engineering Intern | Python, OpenAI, GCP, Azure, AWS, Docker, FastAPI

Sedai Inc.

May 2024 – Aug. 2024

The Woodlands, TX

- Designed and implemented cost-optimization algorithms to recommend the optimal cloud provider.
- Built Python micro-services that integrate with a PostgreSQL RDBMS.
- Automated cost-saving recommendations.
- Containerized services with Docker for cloud deployment

Software Engineer | Python, FastAPI, Pandas, scikit-learn, InfluxDB

MINTS Group | UT Dallas

Sept. 2023 – May 2025

Richardson, TX

- Aggregated and cleaned large climate datasets using Pandas and Python.
- Developed ML pipelines (scikit-learn) to predict hospital admissions from environmental variables.
- Migrated climate data dashboard backend database service to Influx, increasing customizability and accessibility.

Software Engineer | Python, OpenAI, BeautifulSoup, PostgreSQL

Datron Inc.

Dec. 2024

The Woodlands, TX

- Built dynamic LLM-driven web-scraping agents (OpenAI GPT-4 API + BeautifulSoup) for e-commerce sites.
- Implemented retry and anti-bot evasion logic, raising scrape success rates on multiple sites.
- Consolidated outputs into a PostgreSQL database, enabling real-time business analytics dashboards.

Data Analyst Intern | Python, matplotlib, Numpy, Pandas

CU Boulder & NOAA

Jun. 2021 – Jul. 2021

Boulder, CO

- Validated WAM-IPE TEC predictions against LISN observations using Python (pandas, NumPy, matplotlib).
- Authored reproducible Jupyter notebooks and published open-source code on GitHub.

PROJECTS

Computer Use Agents | Python, OpenAI, Anthropic, Streamlit, Docker

Summer 2025

- Implemented computer-using agents using both ChatGPT and Claude.
- Designed a dashboard to provide a central control for both agents.
- Implemented multiple usage modes for each agent (Docker, Browserbase).
- Containerized and deployed application.
- Repository: <https://github.com/achandranjr/Computer-Use-Agents>.

LLM Applications | Python, OpenAI API, PostgreSQL, LangChain, Streamlit

Fall 2025

- Developed a suite of LLM-powered tools including a document-based Q&A chatbot, an AI research assistant, and API-integrated agents.
- Built backend pipelines leveraging LangChain, vector databases (FAISS), and prompt engineering to ground LLM outputs in contextual data.
- Created user-facing interfaces using Streamlit for demoing LLM workflows and showcasing agent capabilities.
- Repository: github.com/achandranjr/LLM-projects/tree/main

First Person 3D Action Game | Unity, C#, Blender, Reaper DAW, GIMP

Fall 2024

- Developing a First-Person 3D action game.
- Dev logs available at: <https://www.youtube.com/playlist?list=PL6km3QkYTmChluvwAF3zpzzsNeGsoMd9C>

TECHNICAL SKILLS

Languages: Python, Java, C++, C, C#, JavaScript, MIPS 32-bit Assembly

Frameworks & Libraries: scikit-learn, pandas, NumPy, Flask, BeautifulSoup, matplotlib, pytorch, OpenAI API & SDK, Anthropic API & SDK

Tools: AWS, GCP, Azure, Docker, Git, REST APIs, PostgreSQL/MySQL, Home Assistant, Linux, Unity