Chris Jaksec

✉ cmtjaksec@gmail.com · in linkedin.com/in/jaksec · ⊙ github.com/jaksec · 🌐 jaksec.dev

Education

University of Central Florida   **Jun. 2022 – May 2026**
BSc in Computer Science | Cumulative GPA: 3.6   *Orlando, FL*

Experience

Software Engineer Intern   **Jun. 2025 – Aug. 2025**
Walmart Global Tech   *Sunnyvale, CA*

- Developed an **ETL pipeline** that extracts **100K+** Walmart.com search queries monthly from **BigQuery** and loads them into **GCS** using **Airflow**, providing sample datasets for guardrail tools.
- **Automated** data processing workflows to **fully eliminate manual effort**, enabling **scheduled** dataset updates and **saving developer hours**.
- Optimized **SQL queries**, reducing data extraction time by up to **15%** and analyzed search query metadata to expand dataset coverage and variety.
- Ensured **accuracy** and **reliability** of exported datasets by implementing end-to-end **validation checks**.

University Teaching Assistant   **Aug. 2023 – Present**
University of Central Florida   *Orlando, FL*

- Designed and delivered supplementary materials and tutorials for **1200+ students** across multiple classes.
- Conducted **Python** and **C** tutoring sessions, improving student exam performance by **35%**.
- **Evaluated** and **graded** programming assignments, providing **constructive feedback** to students.
- Supported students during lab sessions, helping them with **coding exercises**, **debugging**, and **troubleshooting**.

Projects

Vul-RAG | *Python, Flask, PostgreSQL, Elasticsearch*   **Aug. 2025 - Present**

- Helped in **productionizing Vul-RAG**, transforming the underlying research system into a **user-facing product** by improving **data workflows**, **retrieval reliability**, and overall **system readiness** for real-world deployment.
- Enriched the **vulnerability knowledge base** by curating and structuring high-quality **CVE data**, **code–patch pairs**, and **semantic context** to strengthen the RAG model's retrieval accuracy.
- Improved **data-processing pipelines** and backend consistency, resulting in clearer **vulnerability-detection reports** and more reliable system outputs.

KnightTracks | *React.js, Express.js, MongoDB*   **Oct. 2024 – Nov. 2024**

- Led the front-end team for KnightTracks, a **React**-based stack nutrition tracker used by **50+ beta users**.
- Implemented **meal tracking** with **macronutrient breakdowns** and **customizable user goals**.
- Integrated **Express** and **MongoDB** to support real-time data tracking and secure storage of user nutrition data.

LawgicBot | *React.js, OpenAI API, Azure*   **Oct. 2023**

- Built a **legal assistant chatbot** to simplify access to legal guidance for users.
- Integrated a **GPT-based model** using **Python** and the **OpenAI API** to deliver accurate, contextually relevant legal guidance in real time.
- Utilizes a **Flask** and **SQL** backend to retrieve information from a database hosted on **Azure**.

Skills

Languages: Python, Java, SQL, JavaScript/TypeScript, HTML/CSS

Frameworks/Libraries: React.js/Next.js, Express.js, Flask, FastAPI, Tailwind CSS

Technologies: Node.js, Docker, Airflow, Google BigQuery, PostgreSQL, MongoDB, Elasticsearch