

# Jaedon Satchell

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## PROFESSIONAL SUMMARY

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Entry-level developer with hands-on experience building full-stack applications using JavaScript, Python, React, Flask, Node.js, cloud services, and AI coding assistants. Strong foundation in computer science and a track record of shipping real projects end-to-end. Looking for a role where I can grow through mentorship, contribute to production systems, and expand my technical skills while delivering meaningful impact.

## SKILLS

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

**Libraries/Frameworks:** React, React Native, Node.js, Flask, Express.js Matplotlib, Pandas, NumPy, Tailwind CSS

**Cloud Services/Databases:** MongoDB Atlas, AWS S3, AWS RDS, AWS EC2, Vercel, Render

**Tools:** Git, Linux, Vite, Kanban, Airtable, , Clerk, Jira, Notion

## EDUCATION

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**Loyola University Chicago**

*BS Computer Science*

Chicago, IL

*August 2021 – May 2025*

## PROJECTS

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**AI Fragrance Recommendation** | *React, Tailwind, Flask, MongoDB*

[fragentic.vercel.app](https://fragentic.vercel.app)

- Developed a full-stack web application that uses OpenAI's vector embedding model and cosine similarity to generate top cologne and perfume recommendations based on user input.
- Engineered a Python data pipeline to process 20,000+ records, implemented batch embedding and an LRU cache that reduced computation time by 60%, then finally posted cleaned data into a cloud-hosted NoSQL database using PyMongo.
- Designed and implemented a RESTful API using Flask, with pre-search filtering and vector similarity ranking, improving search relevance while reducing unnecessary database scans.
- Built a mobile-first, responsive React UI using Tailwind CSS, JavaScript, and CSS breakpoints.
- Dockerized the Flask backend for deployment, ensuring consistent builds and reliable scaling across production environments.

## EXPERIENCE

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**Volunteer Full Stack Software Engineer** | Prometheus

October 2025 – Present

- Developed and delivered technical solutions using TypeScript, Next.js, Clerk, and Airtable for nonprofit organizations, saving an estimated 129+ staff hours and providing \$20K in pro bono technical services.
- Resolved critical authentication vulnerabilities within a Next.js application by implementing inactivity timeouts, account deactivation handling, and session limits across the platform.
- Implemented automated testing using Jest to validate authentication flows, session handling, and core business logic.
- Designed and implemented a relational database system to replace manually updated spreadsheets, improving data reliability and access speed.
- Collaborated using GitHub (feature branching, pull requests, code reviews) to ship features safely and maintain code quality.
- Authored clear technical documentation and onboarding materials, enabling nonprofit staff to maintain and extend solutions independently.

**Assistant Performance Analyst** | Chicago Hounds

January 2025 – June 2025

- Developed an analytics system using Python to process XML game data files from rugby matches, extracting meaningful statistics, identifying performance trends, and generating data visualizations.
- Utilized Python to develop internal tools, generate one-off data visualizations, and automate time-intensive tasks saving coworkers several hours per week.
- Implemented automated processes to update league averages and team performance metrics throughout the season, enabling week-by-week comparative analysis and trend identification.