

JACOB ARAGAO

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EDUCATION

McGill University, Montreal, Quebec

08/2022 - 04/2027

Bachelor of Engineering in Software Engineering (Co-op)

- Achieved distinction by placing in the top 15% of the Faculty of Engineering (2024-2025).

WORK EXPERIENCE

Carehive

Software Engineering Intern | TypeScript, SolidJS, Node.js, PostgreSQL, Vitest, Tailwind, GitLab 05/2025 - 08/2025

- Built and shipped a full-stack **Reminder Engine** to re-engage members on incomplete cost-saving actions; rolled out from 0 → 9 services with per-service checkpoints and deep links allowing users to resume in-flow.
- Designed a multi-reminder stack UI (expand/collapse, tailored CTAs) with a custom **sorting algorithm**, surfacing the highest-value next step and boosting action completion rates.
- Proactively **identified and fixed** a data-integrity defect in referral navigation that caused missing records, resulting in restored referral histories and reduced user drop-off.
- Refactored the reminders into an isolated component and added extensive **unit tests**, improving reliability and developer velocity.
- Implemented custom **Braze** funnel events (entry, checkpoint, completion) to enable targeted email/SMS outreach and measurement.

Clearer.io

Junior Software Engineer | React, JavaScript, Node.js, PostgreSQL, Redis, AWS S3

09/2024 - 04/2025

- Worked on the Rich Returns **Shopify app**, implementing full-stack features using a **CI/CD pipeline**.
- Identified and patched a critical vulnerability in user checkout by implementing stricter server-side validation in **Node.js**, improving overall system security.
- Spearheaded the creation of the "Instant Exchanges" feature, integrating **Stripe** payments directly into the return flow, streamlining the exchange process for **39%** of customers.
- Enhanced the user dashboard by integrating live shipment status updates, using **React** and **Node.js**, boosting shipment-related user insights by **50%**.

Software Engineering Intern

05/2024 - 08/2024

- Developed a full-stack solution with a new API endpoint and controller to remove photo references from the front-end, database, and **AWS S3**, ensuring consistent data removal.
- Executed a seamless production **database migration**, resolving a critical issue and impacting over **900 users** with minimal downtime.

SKILLS

- Programming:** JavaScript, TypeScript, Python, SQL, GraphQL, HTML, CSS, Java, C
- Frameworks & Tools:** React, Node.js, Django, SolidJS, PostgreSQL, Firebase, Redis, Flask, Tailwind CSS, Git, AWS, Jest
- API Integration:** RESTful APIs, Shopify, ShipStation, OpenAI
- Soft Skills:** Problem Solver, Collaborative Team Player, Agile Learner
- Languages:** Fluent in English; Conversational in French

PROJECTS

VentureCircle

Project Link: <https://venturecircle.io/>

11/2025 - Present

- Co-founded an all-in-one entrepreneurship platform facilitating the "Idea to IPO" lifecycle; built a community forum and an AI-driven support ecosystem using **React** and **Django**.
- Engineered a comprehensive unit test suite using **Python's unittest** framework to verify backend controller functions and ensure data integrity across **Firebase** interactions.
- Selected for McGill's competitive **TechAccel Program** (Summer 2025); validated the business model through mentorship and market research, securing **\$1,250** in grant funding.

FantasyGuide

Project Link: <https://youtu.be/EM8tWZOGKWI>

01/2024 - 02/2024

- Built a full-stack web app for fantasy football optimization using **React**, **Flask**, and **SQL**, automating player data scraping with **BeautifulSoup** and analyzing it using **Pandas**.
- Integrated **OpenAI's API** to provide AI-driven roster recommendations, improving user engagement with personalized insights.