

# Jacob Fu

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## Skills

### Programming Languages:

Python, JavaScript/TypeScript, Java, C, C++, SQL, HTML/CSS

### Technologies:

React, Django, Flask, Node, Express, Next.js, GraphQL, PostgreSQL, MongoDB, Tailwind

### Tools & Platforms:

Git, Docker, AWS, GCP, Firebase, Postman, Unix/Linux, Jupyter, Claude Code, Cursor

## Experience

### HubSpot

May 2026 – Aug 2026

Incoming Software Engineering Intern

Boston, MA, USA

### HubSpot

May 2025 – Aug 2025

Software Engineering Intern

Boston, MA, USA

- Shipped HubSpot's next-gen Sales Workspace in under 3 weeks, streamlining workflows and improving rep efficiency by **15%** across **200k+** users, while collaborating with a PM and designer, using **React**, **TypeScript**, **Redux**, and **GraphQL**.
- Led a month-long A/B frontend experiment to migrate users from legacy CRM-tasks-index to Sales Workspace tasks, testing visibility as an adoption driver and informing senior leadership after reporting a **7%** increase in workspace traffic.
- Resolved **45+** support tickets, UX/UI bugs, and **GraphQL/REST API** errors, reducing team average resolution time by **26%**.
- Improved HubSpot's Sales Workspace load and transition performance by **12%** through lazy loading and dynamic imports for major **React** components, and by caching **GraphQL/REST** requests with **Apollo Client** and **Redux**.

### Bridgewell Financial

Feb 2025 – Jul 2025

Software Engineering Intern

Toronto, ON, Canada

- Built a client portal with **TypeScript**, **Next.js**, **Supabase**, and **Azure**, reducing docs. turnaround time by **35%** for **12+** clients.
- Automated onboarding uploads to **SharePoint** using **Azure Graph API**, improving file access and organization for advisors.
- Developed an alert system with **pg\_cron** to schedule checks for incomplete forms and trigger automatic follow-up emails.
- Implemented a templating system for advisors to create reusable client form sets, reducing manual entry and data errors.

### Weehoey Inc.

Oct 2023 – Jan 2024

Software Developer Intern

Kingston, ON, Canada

- Developed a **JavaScript** web app to automate employee bonus calculations, saving a client **7+** collective hours per month.
- Improved server maintenance process by automating log reporting via **PowerShell**, reducing labor by **30+** minutes daily.
- Monitored and managed **30+** client servers daily, proactively reporting and resolving security issues to reduce downtime.

## Projects

### 🔗 MapleTenders – Gov. Contract Discovery Portal | *FastAPI, Node.js, Elasticsearch, Docker, AWS, PostgreSQL*

- Created a B2B platform enabling Canadian businesses to discover government tenders enhanced with AI search and insights—containerized using **Docker**, and deployed on **AWS EC2** with an **NGINX** reverse proxy, ensuring scalable access.
- Engineered an ETL pipeline with **Puppeteer** and proxy rotation to scrape **2400+** daily tenders from federal government, **6+** provinces, and **24+** municipal sources, cleaning, transforming, and loading data into a unified tender **PostgreSQL** database.
- Built semantic search system using **Sentence Transformers**, **FastAPI**, and **Elasticsearch** cluster for natural lang. queries.

### 🔗 Metro Apocalypse – Zombie-tag .IO Game | *HTML5/CSS, JavaScript, Modd.io Game Engine*

- Developed a multiplayer **HTML5** .io game using Modd.io Game Engine, Modd.io server hosting, **JavaScript** and **HTML/CSS**.
- Grew player base to **248K+** users with **4.2M+** play sessions, generating **\$2,500+ CAD** through Patreon and microtransactions.

### 🔗 RBveal – Multi-Stage Phishing Simulator (UofTHacks Winner) | *Next.js, React, Express.js, Node.js, WebSockets*

- Won RBC's 1st Place Prize (**\$1,000**) among **550+** competitors at University of Toronto's 2025 Hackathon.
- Built a scam-call agent system using **WebSockets**, Deepgram, OpenAI, and Twilio for conversations with **<1.2s** latency.

### 🔗 FairFi – Bias Detection for Call-Agents (DeltaHacks Winner) | *Next.js, React, Express.js, Node.js, Twilio, MongoDB*

- Won Procter & Gamble's 1st Place Prize (**\$750**) among **640+** competitors at McMaster University's 2025 Hackathon.
- Built a web app using **Twilio** and Cohere to analyze financial service employee bias in real-time, storing data in **MongoDB**.

## Education

### University of Waterloo

Sep 2024 – Apr 2029

Honours Bachelor of Computer Science and Financial Management, Co-op, cGPA: 86/100%

Waterloo, ON, Canada

- Awards:** R. Harding Entrance Scholarship (\$5000), President's Scholarship of Dist. (\$5000), CFM Achievement Award (\$2000).