

# Owen Gretzinger

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[github.com/owengretzinger](https://github.com/owengretzinger) | [linkedin.com/in/owengretzinger](https://linkedin.com/in/owengretzinger) | [owengretzinger.com](https://owengretzinger.com)

## EDUCATION

**Honours Computer Science Co-op (B.A.Sc.), McMaster University**

**Sep 2021 – Apr 2025**

GPA: 4.0/4.0

- Teaching assistant for 40 third-year software engineers in a data structures and algorithms course (fall 2023)
- Year Representative in the Computer Science Society
- Awards: Provost's Honour Roll Medal (x2), Deans' Honour List (x3), Edwin Marwin Dalley Memorial Scholarship, Faculty of Engineering Award of Excellence

## WORK EXPERIENCE

**Software Developer Co-op RBC Amplify, Royal Bank of Canada**

**May 2024 – Present**

- Building an innovative solution for RBC's life insurance products using React, Node.js, and Azure database services, incorporating feedback from usertesting.com to create a user-centric application

**Software Engineer, Pekoe Development**

**Dec 2023 – Present**

- Leading the front-end development of AIRE, an AI-powered communication platform for realtors, by implementing the entire client-side application from scratch using React, Next.js, and Node.js
- Engineered scalable database schemas and integrated a Supabase PostgreSQL database with the front-end, enabling efficient data management and real-time updates

**Software Developer Co-op, Arctic Wolf Networks**

**May 2023 – Aug 2023**

- Developed and implemented 51 enhancements for the WolfHelper Chrome extension using JavaScript and Node.js, including the creation of new features such as an IP scanner check which became the fifth most-used action
- Integrated the Webpack bundler, improving performance and reducing the application size by 500%, and incorporated Fullstory for comprehensive behavioral analytics, enhancing the application's user experience insights
- Redesigned the interface using CSS, significantly improving user experience and earning praise from senior leadership

## PROJECTS (All source code at [github.com/owengretzinger](https://github.com/owengretzinger))

**Personal Website** | [owengretzinger.com](https://owengretzinger.com) | *React, Next.js, TypeScript, Node.js, Figma*

- Achieved a perfect 100% Lighthouse score in performance, accessibility, best practices, and SEO by optimizing code

**Habits Together App** | [github.com/owengretzinger/habits-together](https://github.com/owengretzinger/habits-together) | *React Native, Firebase, Expo, TypeScript, Figma*

- Leading a cross-functional team of 9 students to build an iOS and Android app using React Native, incorporating advanced data visualization and social features
- Implemented state management using Jotai to manage data flow, reduce API requests, and improve loading times

**Jazz Musician Website** | [mattausgretzinger.com](https://mattausgretzinger.com) | *React, Decap CMS, Next.js, TypeScript, Node.js, Figma*

- Implemented Decap CMS, saving the client 10 hours by enabling them to maintain the site and post upcoming shows

**Server Insights Discord Bot** | [devpost.com/software/server-insights](https://devpost.com/software/server-insights) | *Python, Discord.py, Matplotlib*

- Achieved first place in TrailHacks by building a Discord bot using Python that analyzes messages, generating insightful breakdowns of server activity and engagement

## SKILLS

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

**Frameworks & Technologies:** React, Next.js, Node.js, PostgreSQL, Firebase, React Native

**Tools & Platforms:** Figma, Git, Linux

Other stuff I could swap in:

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**Simple Terms Chrome Extension** | [devpost.com/software/simple-terms](https://devpost.com/software/simple-terms) | *React, Chrome Extensions API, OpenAI API*

- Developed an optimized process for AI analysis and summary generation of large documents by utilizing techniques including prefetching and request parallelization

**McMaster Room Booking Website** | [room-booking-system-blond.vercel.app](https://room-booking-system-blond.vercel.app) | *React, Next.js, Figma*

- Developed a prototype for a room booking application as part of a Human Computer Interfaces course (A+), incorporating user feedback to create an intuitive interface that prioritizes user experience and task efficiency