

Technical Skills

Languages: JavaScript (TypeScript), C++, Python, Ruby, SQL, GraphQL, Java, Bash, Swift

Frameworks: React, Flask, Rails, Django, NextJS, Express, PostgreSQL, AWS, Firebase, Elasticsearch

Competitive Programming: [Leetcode](https://leetcode.com/) (2560 Elo, 99% percentile), [Codeforces](https://www.codeforces.com/) (2170 Elo, 98% percentile)

Work Experience

Full Stack Developer Intern **Super.com** **Jan - Apr 2024**

- Built a feature that auto-scrolls users to key parts of the site, driving **\$1M** in annualized revenue and a **6%** relative increase in successful hotel bookings
- Developed and AB-tested various React features including recommending cheaper hotels and suggesting alternative payment methods, retaining **30,000** additional users annualized
- Resolved multiple bugs within payment, hotel search, and booking emails using **DataDog** and **Amplitude**
- Contributed autocomplete functionality and several styling variants to internal design system
- Technologies used: React, TypeScript, NextJS, Express, Flask, DataDog, Amplitude, Jest, Snowflake

Software Developer Intern **Huawei** **May - Aug 2023**

- Redesigned C++ **library** for Huawei's **FPGAs**: decoupled into self-sufficient module, refined API, and clarified memory ownership using smart pointers, facilitating seamless integration with rest of product
- Refactored a crucial **24-byte class** into an **8-byte integer** to reduce memory usage of subsystem by 50%
- Improved runtime of matching and merging algorithms by over **70%** using multithreading and C++ Standard Library data structures
- Built features for in-house scripting engine, including support for logging and combining specification files
- Technologies used: C++, CMake, Google Test

Full Stack Developer Intern **CareGuide** **Sep - Dec 2022**

- Co-led expansion project, bringing website to **1000+ users in the UK**; devised new onboarding flow, implemented free trial features, and executed successful launch
- Refactored the phone number API to enable international phone calls for **200+ users**
- Optimized the loading time of various big-data pages by **10x** using Elasticsearch
- Technologies used: Ruby on Rails, React, TypeScript, GraphQL, MySQL, Elasticsearch, Kubernetes

Software Developer Intern **NYTEC** **Jan - Aug 2021**

- Developed a React [website](#) and [app](#) used by **50+** NYTEC members to access church resources
- Engineered an email and app-based notification system using Firebase for instant access to church news
- Technologies used: React, React Native, Firebase, Flask

Projects

- Chess AI** | [Github](#) – a 1200 Elo chess bot, trained on the Lichess dataset. Designed complementary CNNs to determine optimal move squares
- Guitar Songsheet Creator** | [Github](#) – a website that allows users to create and share song sheets

Education

3B Computer Science **University of Waterloo** **Expected Grad: Apr 2026**

- 94%** CS average, **\$18k** Ronald G. Dunkley National Scholarship
- Coursework:** Operating Systems, Algorithms, Databases, Networks, Data Security, Intro to AI