

Owen Cooke

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EDUCATION

University of Alberta – Edmonton, AB, CAN

Sep 2020 – May 2025

BSc in Computer Engineering Co-op – Software Option

GPA: 4.0

- *Scholarships:* Superior Undergraduate Achievement (2022-24), Jason Lang (2021-23)
- *Coursework:* Data Structures, Algorithms, Operating Systems, Database Management, Data Analysis and Machine Learning

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, HTML, CSS, C/C++, Rust, SQL

Frameworks & Tools: React, Node, Spring, Flask, Qt, MongoDB, PostgreSQL, JUnit, Jest, Playwright, AWS, Kibana, Docker, Git, Unix

WORK EXPERIENCE

NimbleRx – San Francisco, CA, USA

Sep 2024 – Present

Software Engineer Intern

- Unblocked 85 new pharmacies from launching by building an audit tool for itemized transaction CSV downloads via React.
- Increased performance of Amazon S3 upload time by 18% platform-wide by refactoring legacy usage of the Java AWS SDK.

RBC Royal Bank – Toronto, ON, CAN

May 2024 – Aug 2024

Software Developer Intern, Amplify

- Innovated and filed a patent for a GenAI on-call assist system to reduce incident management toil and improve data quality.
- Enabled real-time incident updates for IT observability by integrating WebSockets with React, FastAPI, and MongoDB.

ATB Financial – Edmonton, AB, CAN

May 2023 – Aug 2023

Software Developer Intern

- Reduced deployment time for business banking platform alerts by 50 hours per year by developing REST APIs using Node/Express and PostgreSQL, which also led to a decrease in customer calls to client care during service disruptions.
- Built an internal tool using React for scheduling site-wide banners, eliminating manual code changes needed each sprint.

SMART LAB – Edmonton, AB, CAN

Jan 2023 – Apr 2023

Software Research Assistant

- Designed a survey tool via React and Firebase to help small businesses easily visualize their Industry 4.0 digital maturity.
- Built an automated repair program in Python via SciPy and PyQt to integrate with a robotic cell for repairing pipes.

LIMDA Laboratory – Edmonton, AB, CAN

May 2022 – Dec 2022

Software Research Assistant

- Developed a desktop app via Python and Qt for detecting 3D print defects from 3D scans to improve part quality.
- Authored a 6-page paper published in IEEE Xplore proposing an algorithm for extracting differing 3D scan-to-CAD features to enhance automated, sustainable remanufacturing.

PROJECTS

What to Code | *Buildspace*

Jun 2024 – Present

- Launched a software idea generation platform using Next.js, PostgreSQL, and LangChain as part of a community incubator.

RareQuest | *Code to Give*

Mar 2024

- Built an HTML pixel art game for a non-profit to raise awareness about the challenges of rare disease diagnosis.

MobilityMate | *Diversity in Engineering Prize, HackED*

Jan 2024

- Implemented an accessible AI voice assistant interface via React frontend and OpenAI APIs (GPT-3.5 and Whisper) to support senior physiotherapy patients and summarize difficulties when exercising for their medical practitioner.

TaskKeeper | *Hack the North*

Sep 2023

- Created a Teams bot to summarize messages and classify tasks for users using Cohere and Microsoft Graph APIs.

OutageML | *2nd Place, APIC Energy Hackathon*

Apr 2023

- Proposed prioritizing areas for power outage repair using React and PyTorch, to minimize emergency downtime.

VOLUNTEERING

Computer Engineering Club – Edmonton, AB, CAN

Sep 2023 – Sep 2024

Junior Executive, Upper Year Rep

- Refactored the club's website in React to increase the visibility of events and technical resources for students.
- Networked with early talent recruiters to gain sponsorship for club events, including hackathons and career fairs.