

Owen Cooke

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EDUCATION

University of Alberta

Sep 2020 – Jun 2025

Bachelor of Science in Computer Engineering Co-op – Software Option

3.96 GPA

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

TECHNICAL SKILLS

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

Frameworks & Tools: React, Node, Spring, Expo, PostgreSQL, Jest, JUnit, Playwright, AWS, Kibana, Docker, Git

EXPERIENCE

NimbleRx

Sep 2025 – Present

Software Engineer

Redwood City, CA

- Designing and implementing Spring services and React features to deliver product enhancements for pharmacists.
- Investigating production issues via Kibana log and SQL analysis and resolving, reducing pharmacy pain points.

NimbleRx

Sep 2024 – Dec 2024

Software Engineer Intern

Redwood City, CA

- Created an audit tool for downloading Stripe transactions using React, unblocking the launch of **85** pharmacies.
- Refactored REST APIs and frontend flows to eliminate **85,000** improper 404 errors/day, improving observability.
- Optimized Amazon S3 integrations via Spring and AWS SDK, reducing file upload time by **30%** platform-wide.

RBC Royal Bank

May 2024 – Aug 2024

Software Developer Intern

Toronto, ON

- Filed a patent for an LLM transcription tool to automate incident documentation for more intelligent IT insights.
- Built real-time incident resolution tracking with WebSockets and MongoDB to visualize SRE response timelines.

ATB Financial

May 2023 – Aug 2023

Software Developer Intern

Edmonton, AB

- Wrote APIs for managing site banners with Node and Postgres, eliminating weekly manual code deployments.
- Implemented an internal React tool for improved banner UX via scheduling, emergency override, and history logs.

SMART LAB

May 2022 – Apr 2023

Software Research Assistant

Edmonton, AB

- Built a 3D app in Python to integrate with a simulated robotic cell for visualizing automated wear repair of pipes.
- Published an IEEE paper proposing a new 3D-scan feature extraction algorithm for re-manufacturing automation.
- Developed a desktop app via Python and Qt for detecting 3D print defects from 3D scans to improve part quality.

PROJECTS

Memento | *React Native, FastAPI, PostgreSQL, Google Cloud*

Jan 2025 – Apr 2025

- Created a mobile app to easily preserve keepsakes with image metadata, classification, and background removal.

What to Code | *Next.js, PostgreSQL, LangChain, OpenAI*

Jun 2024 – Dec 2024

- Launched an LLM-powered platform to help coders brainstorm ideas and kickstart repositories via GitHub's API.

MobilityMate | *React, Flask, OpenAI*

Jan 2024

- Implemented an AI voice assistant to support senior physiotherapy patients through their exercises.
- Won 1st Place for the Diversity in Engineering Prize at HackED 2024 for promoting accessibility.

VOLUNTEERING

Western Engineering Competition 2026

May 2025 – Sep 2025

- Designed challenge prompt, rubric, and presentation materials as co-director of programming category.

Computer Engineering Club

Sep 2023 – Sep 2024

- Redesigned club website in React to improve visibility of events and technical resources for engineering students.
- Established partnerships with tech recruiters to secure sponsorships for hackathons and career fairs.