

# Owen Cooke

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## EDUCATION

### University of Alberta

Sep 2020 – May 2025

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

*Edmonton, AB*

- 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:** JavaScript, TypeScript, Python, Java, C/C++, Rust, HTML, CSS, SQL

**Frameworks & Tools:** React, Node, Spring, Flask, Next, PostgreSQL, MongoDB, AWS, Firebase, Kibana, Docker, Git

## EXPERIENCE

### NimbleRx

Sep 2024 – Dec 2024

*Software Engineer Intern*

*San Francisco Bay Area, CA*

- Refactored integration services in Spring to optimize Amazon S3 upload performance by 30% platform-wide.
- Created an audit tool for downloading Stripe transactions using React, unblocking the launch of 85 pharmacies.
- Eliminated 22% of all 404 errors by refactoring REST APIs and frontend workflows, to improve observability.

### RBC Royal Bank

May 2024 – Aug 2024

*Software Developer Intern*

*Toronto, ON*

- Filed a patent for an LLM transcription assistant to capture incident resolutions efforts and reduce user overhead.
- Built automatic incident timeline summarization in real-time via WebSockets with React, Python, and MongoDB.

### ATB Financial

May 2023 – Aug 2023

*Software Developer Intern*

*Edmonton, AB*

- Developed REST APIs for platform banners with Node and PostgreSQL, eliminating 100% of hard-coded changes.
- Implemented an internal React tool enabling advanced scheduling and emergency overriding of platform banners.

### SMART LAB

Jan 2023 – Apr 2023

*Software Research Assistant*

*Edmonton, AB*

- Designed a survey tool via React and Firebase to help small manufacturers visualize their digital maturity.
- Built a 3D repair app in Python via SciPy and Qt to automate wear repair of pipes with a simulated robotic cell.

### LIMDA Laboratory

May 2022 – Dec 2022

*Software Research Assistant*

*Edmonton, AB*

- Developed a desktop app via Python and Qt for detecting 3D print defects from 3D scans to improve part quality.
- Published an IEEE paper proposing a 3D scan feature extraction algorithm for automated re-manufacturing.

## PROJECTS

### What to Code | *Next, PostgreSQL, LangChain, OpenAI*

Jun 2024 – Present

- Launched an LLM-powered idea platform to help developers kickstart projects, as part of a startup incubator.

### 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.

### TaskKeeper | *JavaScript, Microsoft Graph API, Cohere*

Sep 2023

- Created a Microsoft Teams bot to summarize messages and classify work tasks in a user-friendly dashboard.

### OutageML | *React, PyTorch*

Apr 2023

- Built an ML app to prioritize areas for power outage repair to minimize downtime during emergencies.
- Secured 2nd Place overall at the 2023 APIC Energy Hackathon, recognizing innovation in energy tech.

## VOLUNTEERING

### Computer Engineering Club

Sep 2023 – Sep 2024

*Junior Executive, Upper Year Rep*

*Edmonton, AB*

- 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.