Owen Cooke

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EDUCATION

University of Alberta   Sep 2020 – Jun 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

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C/C++, Rust, HTML/CSS, SQL
Frameworks & Tools: React, Node, Spring Boot, Next.js, Jest, PostgreSQL, MongoDB, AWS, Kibana, Docker, Git

EXPERIENCE

NimbleRx   Sep 2024 – Dec 2024
Software Engineer Intern   *San Francisco Bay Area, 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   Jan 2023 – Apr 2023
Software Research Assistant   *Edmonton, AB*
- Designed a survey tool via React and Google Firebase to help small manufacturers visualize their digital maturity.
- Built a 3D desktop 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 new 3D-scan feature extraction algorithm for re-manufacturing automation.

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.

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.