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 Boot, Flask, PostgreSQL, MongoDB, AWS, Elasticsearch, Docker, Git

EXPERIENCE

NimbleRx   Sep 2024 – Present
Software Engineer Intern   *San Francisco, CA*
- Created an audit tool for downloading Stripe transactions using React, enabling the launch of 85 new pharmacies.
- Refactored Spring Boot integration services to optimize Amazon S3 upload performance by 30% platform-wide.
- Implemented job scheduling via Amazon SQS, enabling planned production data changes for operations teams.

RBC Royal Bank   May 2024 – Aug 2024
Software Developer Intern, Amplify   *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.js, 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.

TaskKeepr | *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.