

Nathan Lee

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TECHNICAL SKILLS

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

Tools & Frameworks: AWS, React, Next, Node, PostgreSQL, MongoDB, Jenkins, Docker, Vue, Git, Azure, Jest

EXPERIENCE

Electronic Arts

Sep. 2025 – Apr. 2026

Incoming Software Engineer Intern

Vancouver, BC

- Mobile Development and Release Engineering (DRE) team

SMART Technologies

Sep. 2024 – Present

Software Engineer Intern

Calgary, AB

- Worked on SMART's flagship cloud-based learning platform serving over **1.3 million** teachers globally
- Optimized database architecture by introducing **Redis** caching and **AWS S3** static file storage, reducing **Firestore** read/write operations and cutting monthly database costs by **\$5500**
- Refined **CI/CD** pipelines in **TeamCity** by integrating build caching and job parallelization, reducing **AWS** cloud deployment times by **40% (10 to 6 minutes)**
- Integrated **AI** generation tools into key user flows via **Hugging Face APIs**, achieving **76%** adoption in 4 months
- Developed an event-driven data pipeline, leveraging **TypeScript** and **Mixpanel** to process **60,000+** daily events
- Earned company-wide engineering excellence award by consistently shipping high-impact **production-ready** code
- Delivered **high- and low-level re-designs** for refactoring **5 core Vue.js** component scripts into composables

University of British Columbia

Apr. 2024 – Apr. 2025

Lead Software Developer

Vancouver, BC

- Developed and deployed a responsive web interface used by **300+** active users utilizing **Node.js** and **React.js**
- Led a team of **4** developers through full Agile cycles, delivering **8** core features across multiple 2-week sprints
- Introduced **Redux** for global state management, eliminating prop-drilling across **5** nested component trees
- Enabled server-side rendering with **Next.js** to optimize search engine visibility and initial page load performance

John Frostad Research Group

Oct. 2023 – May 2024

Software Developer

Vancouver, BC

- Engineered a **Python** script to fully automate and streamline operations of an industrial hardware system
- Leveraged **threading modules** to concurrently operate pressure sensors, temperature controllers, and camera modules, eliminating sequential delays and reducing end-to-end process latency by **70% (20 to 6 seconds)**
- Built a data pipeline using **Pandas** to stream sensor outputs to CSV files, saving **5 hours** of manual entry weekly
- Created a hardware metrics dashboard using **C++ libraries (Qt)**, consistent across Windows, macOS, and Linux

PROJECTS

OlympiDB - Historic Olympics Insights 🏅 | *SQL, React, AWS RDS*

Sep. 2023 – Dec. 2023

- Developed a full-stack **React** application designed for storing, managing and visualizing olympic sports data
- Utilized **AWS RDS** to support a **REST API** architecture of **5 endpoints** for seamless database interactions

MyGoalTracker - Fitness Progress Tracker 🏃 | *Java, Java Swing, JUnit 5*

Jan. 2023 – May 2023

- Created a fitness goal tracking GUI using **SOLID object-oriented** principles across **8** unique **Java** classes
- Incorporated data persistence with CRUD operations on a **JSON database**, enabling users to save and load data

EDUCATION

University of British Columbia

Expected Graduation: May 2027

Combined Major in Computer Science and Business, Science Co-op

- **Awards:** Deans Honour Roll (**Top 10%**), Deloitte ThinkTech (**2nd Place**), BizTech HelloHacks (**3rd Place**)
- **Relevant Courses:** Operating Systems, Algorithm Design, Relational Databases, Object-Oriented Programming