Nathan Lee

(587) 700-0839 | nathanlee033@outlook.com | linkedin.com/in/nathan-lee03 | github.com/nathqnleee | Vancouver, BC

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C/C++, SQL
Tools & Frameworks: AWS, React.js, Node.js, Vue.js, PostgreSQL, MongoDB, Jenkins, Docker, Jest, Git

EXPERIENCE

Software Engineer Intern — September 2024 - Present
SMART Technologies — *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**, reducing **Firebase** read/write operations and cutting monthly database costs by **$5500**
- Refined build configuration scripts in **TeamCity**, enhancing **CI/CD** pipelines and 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
- Designed and implemented an event-driven data pipeline, leveraging **Mixpanel** to process **60,000+** events daily
- 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** components into reusable composables

Software Developer — April 2024 – Present
UBC Business and Computer Science (BUCS) Society — *Vancouver, BC*
- Developed responsive web interface used by **300+** active student users utilizing **Node.js, React.js and Vercel**
- Boosted monthly site impressions by **43%** by implementing SEO-optimized web development practices
- Managed a team of **4** developers, achieving a **100%** sprint completion rate through effective use of Agile principles

Software Developer — October 2023 – May 2024
John Frostad Research Group — *Vancouver, BC*
- Engineered a **Python** script to fully automate and streamline operations of an industrial hardware system
- Leveraged **threading modules** to enable concurrent hardware processing, boosting system efficiency by **20%**
- Created a user-friendly GUI using cross platform **C++ libraries**, offering real-time hardware status insights
- Designed and implemented system architecture for 3 hardware elements, **reducing lines of code by 55%**
- Integrated CI/CD pipeline with **GitHub Actions**, using **10+ workflow tests** to enhance feature delivery

PROJECTS

OlympiDB ⟳ | *SQL, React, AWS RDS* — September 2023 - December 2023
- Developed a web-based **React** application designed for storing, managing and visualizing olympic sports data
- Equipped **MySQL** relational database with **20+** optimized queries, following database system design practices
- Leveraged **AWS RDS** to create and manage API endpoints for seamless cloud database interactions

MyGoalTracker ⟳ | *Java, Java Swing, JUnit 5* — January 2023 – May 2023
- Constructed a fitness goal tracking GUI by incorporating seamless data abstraction of **8+** unique Java classes
- Incorporated data persistence by creating a extensive **JSON database**, giving users ability to save and load data
- Applied test-driven development principles by implementing **20+ JUnit 5 tests** achieving complete test coverage

EDUCATION

University of British Columbia — Expected Graduation: May 2026
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