

Brielle Nguyen

416-886-4638; nguyenhaphuong2002@gmail.com; [LinkedIn](#); [Github](#)

EDUCATION

Western University, London, ON, Canada

2025

Bachelor of Science, Honours Specialization in Computer Science (GPA: 3.8) – TD Scholarship for Women in Data Analytics

Hackathon winner: SheHacks+ 7: General Motors - Best Use of Leveraging Technologies to Improve Mobility Needs (Jan 2023)

Courses: Operating System, Machine Learning, Data Structures, Computer Architecture, Parallel Programming, Compilers, System Programming

Ivey Business School, Western University, London, ON, Canada

2025

Bachelor of Arts, Honours Business Administration (HBA) – Ivey Scholars' Scholarship (2022)

WORK EXPERIENCE

S&P Global, Toronto, ON, Canada

July 2024 – October 2024

Software Engineer Intern

- **Designed and transitioned data pipelines from monolithic architecture to microservices** using Go and Kubernetes, enhancing distributed systems reliability by 30% for 50K+ users.
- **Implemented Python-based machine learning optimizations with TensorFlow**, reducing query response times by 20% and improving backend performance efficiency.
- **Refactored and modernized legacy codebase by transitioning to React and Node.js**, improving frontend performance by 25% and reducing load times by 15%, significantly enhancing user experience and platform responsiveness.
- **Revamped deployment workflows by implementing CI/CD pipelines** using Jenkins, Docker, and Terraform, automating infrastructure provisioning and boosting delivery speed by 50%
- **Developed serverless computing functions using AWS Lambda and API Gateway**, reducing infrastructure costs by 40% and enabling automatic scaling based on demand.

Hydro One, Toronto, ON, Canada

May 2024 – July 2024

Technical Analyst Intern, Digital Transformation

- **Collaborated with Accenture and Capgemini to define a cloud migration roadmap**, laying the foundation for a next-gen digital call center that improved client issue resolution times by 20% and boosted service reliability.
- **Facilitated sessions to develop architectural diagrams**, accelerating engineer onboarding and underscoring distributed systems design for teams.
- **Acted as the key liaison between engineering, product, and external partners**— leading to the successful launch of 2 key product features, resulting in a 20% increase in user engagement and an improvement in team efficiency.

Appen AI, Toronto, ON, Canada

June 2023 – August 2023

Product Intern

- **Contributed to product strategy revamp for Appen's LLM product**, improving lead generation and product-market fit through refinement of product positioning and go-to-market efforts.
- **Supported the product lifecycle for Appen's RLHF product**, including PRDs creation, cross-functional coordination, and sprint planning.

Deloitte, Toronto, ON, Canada

Jan 2023 – April 2023

Product Management Intern

- **Collaborated with cross-functional teams to analyze and optimize pricing strategies**, leading to \$1.6M in recovered revenue and improving product feature adoption through strategic adjustments and market analysis.
- **Worked with stakeholders to define product features**, improving adoption rates by 15% through market analysis and competitive benchmarking.

TECHNICAL PROJECTS

Payment Processing System

2024

React, Node.js, Java, Spring Boot, SQL, MongoDB, REST APIs, AWS, Docker, Jenkins, Python, AJAX, JavaScript, WebSockets

- **Designed and implemented a backend system using Node.js and Spring Boot**, enabling handling of high-volume transactions with dual-database architecture (SQL for structured data; MongoDB for unstructured data).
- **Optimized backend performance** with Python-driven algorithms, reducing API response times by 20% and enhancing scalability via AWS load-balancing to ensure fault-tolerance for thousands of concurrent users.
- Integrated Azure Active Directory B2C for secure user authentication, reinforcing reliability in financial transactions and identity management.

Crypto Coins Trading System

2022

Java, JavaScript, HTML, CSS, MongoDB, React, Script

- **Developed a cryptocurrency trading system** using Java and React, implementing RESTful APIs in Spring Boot for real-time data retrieval-reducing integration time by 30% and boosting transaction efficiency by 20%.
- **Built analytics modules** using JavaScript and MongoDB that enabled traders to customize strategies and visualize market trends, enhancing trading insights and decision-making.

SKILLS

Programming: Python, Java, JavaScript (ES6+), C/C++, SQL, R, HTML, CSS, React.js, Node.js, Express.js, Redux/Immutable, TypeScript, Django, MongoDB.

Core Competencies: Backend Services, Distributed Systems, Scalability, Financial Systems, Performance Optimization.

Tools: Docker, Jenkins, Git/GitHub, AWS, Jira, Confluence, Slack, CI/CD Pipelines, Hadoop, Apache Spark, PowerBI, Tableau, Excel, Figma, Adobe.