

Arman Moztarzadeh

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EDUCATION

University of British Columbia

BSc Mathematics, Minor in Data Science

Sept. 2020 – Apr. 2026

Vancouver, Canada

SKILLS & LANGUAGES

Languages: Python, JavaScript, TypeScript, Java, Swift, C++, SQL, NoSQL, R

Frameworks/Libraries: React, Node, pandas, NumPy, Express, scikit-learn, JUnit

Technologies: Git, AWS, Docker, Azure, GCP, MongoDB, CI/CD, REST APIs

Practices: Agile development, code reviews, unit testing, integration testing

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Amazon

May 2025 - July 2025

Vancouver, British Columbia

- Designed and implemented a Java-based backend model and schema for a REST API supporting scalable Query Promotions services for Amazon Business.
- Developed a serverless Cross-Border Promotions query workflow for Amazon Business using **AWS Lambda** and **API Gateway**, reducing query latency by **70%**.
- Built a new frontend React component to display query results and extract data to CSV format using React and TypeScript, improving usability for **100+** internal stakeholders.

Software Engineer Intern

Amazon

June 2024 – Sept. 2024

Vancouver, British Columbia

- Optimized a React-based global dashboard used in UK retail checkout flows, improving payment security by 20% across high-traffic checkout paths.
- Implemented a checkout use case in TypeScript for the team's testing sandbox using **AWS SAM** and **AWS Lambda**, enabling automated testing across **15+** input scenarios and reducing manual QA time by **30%**.
- Spearheaded the design and implementation of **2 REST APIs** to handle payment authorization within a cloud-native architecture, enabling seamless experimentation with minimal disruption to the existing codebase.

Software Engineer Intern

Government of Canada

Jan 2024 – Apr. 2024

Ottawa, Ontario

- Led the development of **7** features using Python and MongoDB, improving application functionality and supporting a major infrastructure upgrade.
- Wrote optimized MongoDB aggregation queries with indexing, processing collections of over **5 million documents** and reducing query execution time by up to **60%** in critical admin dashboards.
- Created detailed Confluence documentation related to development, facilitating future employee onboarding.

Software Engineer in Test Co-op

Optum

May 2023 – Dec. 2023

Richmond, British Columbia

- Collaborated closely with the testing team to develop and execute advanced automated test scripts using **C#** and **Selenium**, leading to a **10%** performance enhancement as measured by LoadRunner benchmarks.
- Completed **8** Python scripts utilizing pandas and numpy to automate critical tasks, including extracting archive log data and generating CSV reports.

Software Engineer Intern

Porton Health

Sept. 2022 – Dec. 2022

Vancouver, British Columbia

- Secured existing web applications by integrating user authentication features utilizing JavaScript and Node.js, reducing unauthorized access attempts by **40%** and improving application security.
- Tested and debugged over **35** components using **MongoDB** and documented workflow.

TECHNICAL PROJECTS

ForumAI [🔗](#) | Python, React, TypeScript, PostgreSQL, OpenAI, Supabase

Sept. 2024 – Apr. 2025

- Co-lead of a team of 14 members in developing ForumAI, an AI-powered academic forum that enhances structured discussions and document interactions through AI features such as **RAG**.
- Implemented a RAG pipeline combining PostgreSQL, vector search, and OpenAI APIs to enable contextual document retrieval across forum discussions.