Arman Moztarzadeh

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EDUCATION

University of British Columbia	Sep. 2020 – May 2025 (Expected)
Bachelor of Science in Mathematics	*Vancouver, Canada*

SKILLS & LANGUAGES

Languages: JavaScript, Java, SQL, Python, C, C++, R, TypeScript, HTML, CSS
Frameworks/Libraries: React, Express, scikit-learn, JUnit
Technologies: Git, AWS, Docker, Azure, MongoDB

PROFESSIONAL EXPERIENCE

Software Engineering Intern — Jan 2024 – Present
Federal Government — *Ottawa, Canada*
- Scheduled for a 4-month term

Undergraduate Teaching Assistant — Sep 2023 – Present
UBC Department of Computer Science — *Vancouver, Canada*
- Developed a course assignment to compare the performance of **AWS EMR** single-node and multi-node clusters for big data processing tasks, providing insights into cluster optimization strategies
- Collaborated with a Ph.D. student on the development of an autograder using NLP-based ML models
- Provided feedback in editing and reviewing course assignments related to AWS, Azure, and Docker

Software Engineer in Test Co-op — May 2023 – Dec 2023
Optum — *Richmond, Canada*
- 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
- Leveraged VMware and Google Cloud platforms to architect and manage virtual testing environments
- Developed **8** Python scripts utilizing pandas and numpy to automate critical tasks including extracting archive log data and generating CSV reports

Software Engineering Intern — Sep. 2022 – Dec. 2022
Porton Health — *Vancouver, Canada*
- Enhanced existing applications by introducing new functionalities and features using JavaScript, and Node.js
- Tested and debugged over **35** components using **MongoDB** and documented workflow
- Worked closely with UI designers and senior engineers to develop and implement market-ready email templates for the health platform

TECHNICAL PROJECTS

Portfolio Diversification Model ↗ | *Python, Angular, Tensorflow* — Oct. 2023 – Present
- Employed the Upper Confidence Bound (UCB) algorithm using **Python** to evaluate stock performance and generate investment recommendations tailored to user-defined risk tolerance and historical performance.
- Currently involved in the development of the **Keras Long Short-Term Memory (LSTM)** model for time series forecasting, a critical feature to enhance the project's predictive capabilities

BC Cancer Ticket Management System ↗ | *React.js, Express.js, MYSQL* — Oct. 2022 – April 2023
- Developed a laboratory management system as part of UBC Launch Pad and actively met with organizational stakeholders.
- Developed routes and models to load questions into SQL database
- Wrote over **11** unit tests for question routes using Jest

Piano Tracker ↗ | *MongoDB, Express, JavaScript, HTML/CSS, React.js, Node.js* — July 2022
- Developed a full-stack application to allow users to track their piano sessions by inputting dates, descriptions, and durations
- Created a database using MongoDB with a database schema (i.e., User, Piano Session) using Mongoose
- Added **API endpoints** to the server to handle HTTP GET or POST requests for users and piano sessions
- Installed Axios library to send HTTP requests to the backend allowing the creation of new users and piano sessions