Arman Moztarzadeh

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EDUCATION

University of British Columbia   Sept. 2020 – April 2026 (Expected)
Bachelor of Science in Mathematics   *Vancouver, Canada*

SKILLS & LANGUAGES

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

PROFESSIONAL EXPERIENCE

Software Engineer Intern   June 2024 – Sept 2024
Amazon   *Vancouver, Canada*
- Developed a full-stack workflow for credit card multi-factor authentication (MFA) for UK retail checkout using **React**, enhancing payment security for over **millions** of customers.
- Implemented a 'checkout' use case in TypeScript for the team's testing sandbox, utilizing **AWS SAM** and **AWS Lambda** to test the workflow with various inputs.
- Introduced two APIs to handle payment authorization, enabling seamless experimentation with minimal disruption to the existing codebase.

Software Engineer Intern   Jan. 2024 – April 2024
Government of Canada   *Ottawa, Canada*
- Led the development of **7** features using Python and MongoDB, improving application functionality and supporting a major infrastructure upgrade.
- Utilized MongoDB to query through the production database, contributing to the deprecation of **9** legacy codebase elements and modernizing the system for improved maintainability.
- Created detailed Confluence documentation related to development, facilitating future employee onboarding.

Undergraduate Teaching Assistant   Sept. 2023 – April 2024
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.
- Provided feedback in editing and reviewing course assignments related to AWS, Azure, and Docker.
- Assisted **100+** computer science and data science students to help them understand cloud concepts.

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   Sept. 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.

TECHNICAL PROJECTS

Portfolio Diversification Model ↗ | *Python, Angular, Tensorflow*   Oct. 2023 – Dec. 2023
- 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.
- Helped with 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.