Darryl Ma

Vancouver, BC

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Education

University of British Columbia   **September 2018 – Expected May 2026**
Bachelor of Science, Combined Major in Science   Vancouver, British Columbia

Relevant Coursework: Software Construction, Computer Systems, Data Structures and Algorithms, Statistical Inference for Data Science, Relational Databases, Applied Machine Learning, Visualization for Data Science, Statistical Modelling for Data Science

Work Experience

Boeing Vancouver | Java, TypeScript, PowerBI, Azure DevOps, Jasmine, Postman   **September 2024 - Present**
Software Development Intern   Richmond, BC

- Created a generalized method, reducing code redundancy by 3% and improving user navigation efficiency by 4%
- Implemented front-end and back-end features with 100% test coverage and ensured seamless CI/CD deployment
- Diagnosed and resolved E2E and flaky test failures, improving test reliability by 30%
- Engaged with automating the creation of 20+ sprint planning pages and 100+ queries in Azure DevOps using Postman

Incognito Software Systems | Linux, Bash, MySQL, AWS, Jira, Redis, ElasticSearch   **January 2024 - August 2024**
Software DevOps Engineer Intern   Remote

- Configured and installed software onto 20+ CentOS, Rocky and RHEL virtual machines for development and testing
- Engaged in global collaboration efforts with members in 4 different countries to identify and resolve critical bugs
- Improved software installation process through reducing user configuration time by 10%
- Contributed to integration of company software onto AWS infrastructure, optimizing performance and scalability

PharmaPlanter Technologies | Python, Git, PostgreSQL, Django, GCP   **May 2023 - September 2023**
Software Developer Intern   Vancouver, B.C.

- Led the development of an open-collaboration database to store comprehensive data on research development models
- Utilized Django and PostgreSQL for the backend implementation, leveraging GCP services for data storage and retrieval
- Designed and executed an efficient database schema, resulting in over 1000 pieces of data without any redundant entries
- Attended weekly meetings, providing progress updates and contributing innovative ideas for implementation

AVA Technologies Inc. | Python, JavaScript, Git, SQL, HTML, MQTT.fx, Asana   **August 2022 - November 2022**
Data & Software Associate   Vancouver, B.C.

- Lead developer on data analysis dashboard project using ReactJS and ChartJS for real-time analysis of crop growth
- Utilized Axios to fetch API data in ReactJS for processing to create data visualizations
- Accurately and efficiently collected over 200 measurements of plant data for analysis on a weekly basis
- Conducted QA on updates to the mobile app and experiment platform, identifying and documenting any bugs found

Technical Skills

Languages: Python, JavaScript, R, SQL, experience with Java, HTML, C++, TypeScript
Software: Visual Studio Code, MATLAB, Microsoft Office, Jupyter, RStudio, Asana, Jira, Postman, PowerBI
Technologies/Frameworks: Git, JUnit, MSSQL, Oracle, PostgreSQL
Libraries: Pandas, NumPy, scikit-learn, Matplotlib, ChartJS, Vega-Altair, Plotly
Other: Linux, Google Cloud Platform (GCP), Amazon Web Services (AWS), Azure DevOps, DigitalOcean, MacOS

Projects

To-do List App | Python, SQLAlchemy, Flask, HTML   **August 2021**

- Developed a to-do list using Python, SQLAlchemy with an easy-to-use GUI with Flask and HTML
- To-dos are easily added which stores and displays the name, description, and creation timestamp using SQLAlchemy
- The status of the to-do can be updated and be deleted if no longer needed

Calorie Tracker App | Java, JUnit, Swing   **January 2020 - April 2020**

- Built a calorie tracker app using Java, with a GUI designed using Swing
- Ability to save and load current calorie count as well as recall the list of foods inputted by the user
- Wrote a wide range of JUnit tests to check for edge cases and other possible bugs for code coverage