Jordan Lau

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Education

University of Ottawa   September 2021 - December 2025
Bachelor of Science in Computer Science and Minor in Linguistics.
- CGPA of 9.68 (10-point scale).
- CSI 2132: Databases 1 (Learned application management with **PostGreSQL**).
- CSI 3131: Operating Systems (Learned multithreading in **Java** and **C**).
- CSI 4106: Artificial Intelligence (Learned machine learning techniques with **Python**).
- SEG 3125: Analysis and Design of User Interfaces (Performed experiments to formally evaluate user interfaces. Designed fitness tracking website as term project with **ExpressJS**, **Node.js** and **React**).

Work Experience

FINTRAC   Summer 2024
Student Software Developer, Forward Lab
- Worked with **Git**, **Azure DevOps**, **Vue.js** and **TailWindCSS** to help develop LLM application.
- Worked in the whole development cycle for several front-end features and bugs: independently identifying issues, creating tickets in **DevOps**, researching and developing the solutions in **JavaScript** with **Vue.js**, ensuring that solutions met business requirements, publishing branches and submitting **Git** PRs to the dev environment using **DevOps**.
- Assisted clients in Agile Sprints to help prompt engineer their own personalized assistants.
- Created client-facing documents such as an intake form for assistant development sprints.
- Applied principles of UI design in the development of my solutions, such as improved code snippet copy buttons that help the user identify exactly what code they are copying.
- Performed research, including on code libraries and APIs to add support for different file types.

Government of Canada, National Defence   Fall 2023
Student Software Developer
- Researched several antivirus software providers and dozens of software versions to develop analytics for the Government's Threat Surface dashboard.
- Implemented these analytics in **Python** scripts and stored data in a **MongoDB** database.
- Tracked tickets using **Jira** kanban board and participated in code review for pull requests on **GitLab**.
- Automated scripts using **Concourse**.

Skills

- **Java**, **Python** (including **numpy**, **pandas**, **keras**, and **unittest**), **C**, **R**, **Go**, **TypeScript** and **JavaScript.**
- **HTML, CSS** (and **TailWindCSS**), **Node.js**, **ExpressJS**, **Vue.js** and **React.**
- **SQL**, **MongoDB** (CLI and Atlas), **VSCode**, **Azure DevOps**, **Jira**, **Git** and **GitHub**.
- Knowledge of Machine Learning techniques, Requirements Analysis, Testing/Quality Assurance, User Interface Design, and Research Methods.
- B2 proficiency in **French** (CEFR scale).

Projects

Personal Website
- Personal website to showcase myself as a student, tutor and programmer. Written with **HTML**, **Bootstrap**, **JavaScript** and **JQuery**. Hosted with **GitHub** Pages.
- Improved usability by studying feedback from a variety of users.

Google vs DeepL Study
- Self-directed study comparing the difference in translations done by Google Translate with DeepL. Written in **Python** using **NumPy** and **unit testing**.

Hotel Management App
- Team project for CSI 2132 allowing users to book rooms in hotels from various chains and locations. Written with **HTML**, **CSS**, **JavaScript** and **DaisyUI**.
- Database implemented with **PostGreSQL**. Frontend hosted with **React**. Backend hosted with **ExpressJS**.

Meme Machine
- uOttaHack submission implementing a supervised learning algorithm with **Keras** (on **TensorFlow**) in **Python**. Users can input images of "memes" and the model will predict the month and year it was created based on the image. UI done with **Tkinter** and **Python thread library**.