

# PETR FENSTER

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## TECHNICAL SKILLS

Languages: Python, Go, Java, C++, C, JavaScript, Swift, R, HTML, CSS3, SQL  
Frameworks: React, Node, Flask, Pandas, NumPy, Matplotlib, PyTorch, Tensorflow, GPT-2, SwiftUI, UIKit  
Other: Unix, Linux, PostgreSQL, MongoDB, Tableau, Docker, JSON, Kubernetes, Git

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## EDUCATION

**The University of British Columbia, Vancouver, BC, Canada** *Completion: April 2024*

*Bachelor's degree, Combined Major in Business and Computer Science*

- GPA: 83.9% (3.85 on 4.33 scale)
- Dean's Honour Roll (average grade 80%+)
- Trek Excellence Scholarship (top 5% to 10% of students)

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## EXPERIENCES

**Software Engineer Intern, Aviatrix Systems Inc., Vancouver, BC, Canada** *May 2022 – August 2022*

*Tools: Go, Docker, Graph theory, Kubernetes, Git, Rpm-Ostree, RedHat OpenShift, Unix, Linux, CoreOs*

- Developed an application that utilises advantages of container technologies to instantly deploy new products and allows for hitless updates of applications, thus decreasing services' downtime from 3 weeks to a few minutes
- Researched and prepared multiple reports on various tools and technologies, including Docker, Kubernetes, Go, RedHat OpenShift, and Rpm-Ostree to create a robust tech stack for the project
- Had full ownership over a graph-based upgrade service that releases new version updates and updates paths, as well as a Kubernetes-inspired macro service that manages deployment and updates of containerised applications

**Teaching Assistant (CPSC 110), UBC Computer Science Department, Vancouver, BC, Canada** *September 2021 – April 2022*

- Provided feedback and guidance on the course material to 100+ students during scheduled office hours and labs
- Guided and helped students to master the fundamental programming skills and algorithms
- Achieved 98% rating on students' evaluation of experience, becoming one of the highest rated TAs in the course

**Software Developer Intern, Pivot Point Family Growth Centre Inc., Surrey, BC, Canada** *June 2021 – January 2022*

*Tools: OpenAI GPT2, Torch, Tokenizer, Python (Pandas, NumPy, Matplotlib), TensorFlow, Docker, Linux*

- Designed and developed the application used to facilitate the creation of service plans that decreased the practitioners' workload by 40% by creating a database with 1000+ company documents and applying Natural Language Processing algorithms to design the Machine Learning models
- Set project timeline, created application's workflow, prepared descriptive documentation and manuals, developed statements of work for software developers

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## PROJECTS

**UBC Spots** | React, Node, MongoDB, JavaScript, HTML, CSS *March 2022 – Present*

- Creating a Full Stack web application for UBC students to share their favourite secretive spots on campus and place them on an interactive map.
- Uses Express and Node on the backend to handle requests and communicate with the MongoDB database. Developing frontend using React, HTML, and CSS. [GitHub Repository](#)

**POIs application** | Java, JUnit, JSwing, JSON *September 2021 – December 2021*

- Created a Java Desktop application with full CRUD functionality that allows the user to access a large database of POIs. Developed a functional interface using JSwing, and arranged data storage in JSON format. [GitHub Repository](#)

**Memorise** | Swift, SwiftUI, UIKit *May 2021*

- Created my own version of the popular "Memory" game and implemented it as IOS application. A user can choose different modes of the game. Functional and clean design created using SWIFT libraries provides user with good experience when playing the game. [GitHub Repository](#)