James Pham

☑ jamespham2000@gmail.com

\(780-720-2916

 \mathcal{S} jamespham.com

in James Pham

? jamespham0317

Technical Skills

Programming Languages: C++, Java, Python, C

Web: HTML5, CSS, JavaScript, SQL

Technologies: Git, React, PostgreSQL, Railway, JUnit

Projects

Thyme Saver — React, HTML5, CSS, JavaScript, PostgreSQL, Railway

March 2025

- Designed and developed a **full-stack** cooking assistant web application using **React** and powered by the **Google Gemini Vision API**, delivering an **intuitive** and **dynamic** user experience
- Deployed the application seamlessly on Railway, ensuring scalability and reliability
- Enhanced security by **encrypting** user **login-credentials** with **BCrypt** and securely storing them in a **PostgreSQL** database
- Built a robust **back-end** server to handle **client requests** efficiently, ensuring smooth communication between the **front-end** and **database**

Maze Generator and Solver -C++, Raylib

April 2025

- Developed an interactive application to generate and solve mazes using multiple algorithms with realtime animation and performance metrics
- o Implemented several generation algorithms, including DFS, Prim's algorithm, and Kruskal's algorithm
- Built solver implementations for DFS, BFS, A* Search, Greedy Best-First Search, Wall Follower (left/right hand), and Dead-End Filler
- Integrated user input for live toggling between algorithms and animated execution with step-by-step visual feedback

Work Experience

Barista

Edmonton, AB

Dream Tea

November 2021 - Present

- Efficiently crafted and served a wide variety of beverages in a high-volume, fast-paced environment
- Accurately handled transactions, operated the cash register, and managed the payment terminal
- Provided knowledgeable and attentive customer service, addressing inquiries about ingredients and allergen concerns

Music Instructor

Edmonton. AB

Northgate Music School

May 2018 - March 2019

- \circ Delivered tailored musical instruction to over 200 students, fostering their growth and development in piano skills
- Effectively communicated concepts to students across diverse age groups, ensuring understanding and engagement
- Adapted teaching methods to meet the unique needs and learning styles of individual students

Volunteer Experience and Awards

Mentor

Edmonton, AB

You Can Ride 2

March 2023 - March 2023

- Volunteered as a mentor in a six-week program, assisting children with mental challenges and disabilities in building the skills and confidence to ride a bike independently
- o Provided hands-on guidance, encouragement, and instruction to support their progress

Telus Friendly Future Social Impact Award

Awarded for displaying social impact initiative

Hill Top Award

Awarded for community involvement and leadership

Extracurricular Activities

Piano

Achieved Level 10 certification in the Royal Conservatory of Music (RCM) piano program, demonstrating advanced proficiency in performance, music theory, and technical skills

Volleyball

Played as a member of both school and intramural volleyball teams, demonstrating strong teamwork, leadership, and athletic skills, while consistently contributing to team success in competitive matches

Education

University of British Columbia

Bachelor of Science (Computer Science)

Vancouver, BC Expected Graduation: 2027

Awards: Trek Excellence Scholarship (Top 5% GPA in undergraduate year), Dean's Scholar





science.coop@ubc.ca | 604-822-9677