

James Pham

✉ jamespham2000@gmail.com ☎ 780-720-2916 🌐 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 Web Application — *React, HTML5, CSS, JavaScript, PostgreSQL, Railway* *March 2025*

- Designed and developed a **full-stack** cooking assistant web application using **React**, 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**

Space Invaders Clone — *C++* *April 2025*

- Developed a 2D arcade-style Space Invaders clone using C++ and the **raylib graphics library**, showcasing real-time game loop and rendering logic
- Implemented core gameplay features including enemy waves, bullet-enemy collision detection, player controls, and game over conditions
- Applied **object-oriented programming principles** to organize game entities (Spaceship, Alien, Laser) for modular and maintainable code
- Enabled persistent high score tracking using **local file storage** to demonstrate **data handling** and **file I/O** skills

Recycle Radar Web Application (nwHakcs 2025) — *React, HTML5, CSS, JavaScript, Figma* *January 2025*

- Developed a smart recycling assistant powered by the **Google Gemini Vision API**, enabling material classification from **user-uploaded images**
- Integrated the **Google Maps API** to develop an **interactive map feature**, allowing users to filter recycling depots by material type
- Created a **mobile app mock-up** of the application in **Figma**, refining **UI/UX design** for future development

Sleep Tracker Application — *Java, Java Swing, JUnit* *April 2024*

- Designed and developed a user-friendly interface using **Java Swing**, enabling users to track and analyze sleep **statistics**
- Implemented **data persistence** by writing and parsing **JSON files**, allowing users to save and load their sleep records
- Ensured application **reliability** by writing comprehensive **JUnit test cases**, achieving **100% code coverage**

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

Northgate Music School

*Edmonton, AB
May 2018 – March 2019*

- 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

You Can Ride 2

*Edmonton, AB
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
- 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