

Stephanie Xue

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EDUCATION

Bachelor of Computer Science (4th Year) | University of British Columbia (GPA 88%) Sep 2024 – Apr 2027
Doctor of Pharmacy (PharmD) | University of British Columbia (GPA 92%) Sep 2018 – Apr 2022

TECHNICAL WORK EXPERIENCE

Kardium – Software Developer Intern | Burnaby, B.C. Sept 2025 – Present

- Building tools and automated test suites using Java, JUnit, Gradle, Bitbucket, and TeamCity to streamline feature development for a medical device designed to treat atrial fibrillation with high-definition cardiac mapping and ablation
- Initiating architectural refactoring of the main production codebase by standardizing reusable patterns and centralizing shared logic, reducing code duplication and strengthening long-term maintainability and scalability across core modules
- Developed a configuration management tool using MVVM architecture that analyzes a large-scale multi-module Gradle codebase with JavaParser, applying static analysis and symbol solving to extract **98.6% of required configuration data**
- Implemented an interface for the tool that supports real-time configuration modifications with integrated type checking and validation logic, **reducing lookup time to seconds** and **achieving a 95% reduction in manual configuration errors**
- Optimized the tool's performance by leveraging multithreading to parallelize parsing operations and implementing caching mechanisms, eliminating redundant computations and **improving end-to-end load times by over 83%**
- Integrated Gradle (Kotlin DSL) and Launch4j (XML) configurations into the tool's build and packaging workflow, producing JAR and Windows executable artifacts within a TeamCity CI pipeline with Windows batch scripts to automate execution

TECHNICAL PROJECTS

Personal Portfolio Website (Personal) | [Github](#) | [Link](#) Aug 2024 – Present

- Crafted a thoughtfully designed personal portfolio website from scratch using React, Vite, JavaScript, HTML5, and CSS3 to showcase professional experiences, personal projects, photography, and digital art, deployed on Netlify for cloud hosting
- Implementing interactive features including responsive animation effects, a light/dark mode toggle, randomized image galleries, and project carousels, utilizing React state and props across reusable components for real-time content updates

Overhacked (nwHacks) | [Github](#) | [Devpost](#) Jan 2026

- Built a hackathon-themed 2D pixel-art game within 24-hours using Phaser, Next.js, React, Vite, TypeScript, Tailwind CSS, Python, FastAPI, CrewAI, and the OpenAI API to deliver an engaging, adaptive learning experience powered by agentic AI
- Implemented core game architecture and mechanics including scene management, sprite animations, collisions, NPC interactions, minigames, and scoring, integrated with AI agents to generate personalized minigames and contextual hints

Primary Care Clinic Application (Academic) | [Github](#) Jan 2025 – Apr 2025

- Developed an electronic health record (EHR) application using Java and Swing, applying OOP principles to support patient management workflows and clinical record tracking across dual interface options (GUI/CLI) with shared domain models
- Implemented JSON-based persistence for structured application state management and wrote comprehensive JUnit tests

TriageMate (BCS Hackathon) | [Github](#) | [Devpost](#) Mar 2025

- Built a full-stack mobile application in a 24-hour hackathon to streamline hospital triage via AI-driven symptom reporting, leveraging React Native, Expo, TypeScript, Node.js, Express.js, JavaScript, MongoDB, and the Google Gemini Flash 2.0 API
- Developed a cross-platform mobile interface tested with Expo Go and integrated prompt engineering with the Google Gemini API to generate well-defined, clinically relevant JSON outputs for symptom analysis and triage risk stratification

Mentra (cmd-f Hackathon) | [Github](#) | [Devpost](#) Mar 2025

- Created a full-stack AI-powered mental wellness journal chatbot web application in a 24-hour hackathon, using Django, Python, SQLite, JavaScript, HTML5, CSS3, and the Google Gemini Flash 2.0 API to curate personalized user responses
- Led end-to-end full-stack development, implementing user authentication, relational database management, and AI API integration with secure environment variable handling to ensure data protection and reliable deployment on Render

TECHNICAL SKILLS

- Languages:** Java, Python, TypeScript, JavaScript, C++, C, XML, HTML5, CSS3
- Technologies & Tools:** Next.js, React, React Native, Vite, Expo Go, Phaser, Node.js, Express.js, Django, Flask, Bootstrap, Tailwind CSS, Gradle, JUnit, RESTful APIs, OOP, Data Structures & Algorithms, Multithreading, Agile Development, Debugging, Git, GitHub, Bitbucket, TeamCity, AWS, Netlify, Render, VS Code, IntelliJ IDEA, Bash, Windows Batch, Figma

OTHER WORK EXPERIENCE

Shoppers Drug Mart & Medical Centre Prescriptions – Pharmacist Jul 2022 – Feb 2026

- Delivering individualized clinical consultations, medication review services, and vaccinations, applying strong critical thinking and problem-solving skills to help optimize patient outcomes and resolve complex drug therapy problems