

# Justin Lee

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## EDUCATION

### University of British Columbia

*Bachelor of Science, Major in Computer Science & Public Health*

**Expected Graduation: May 2028**

*Vancouver, BC*

- **Relevant Courses:** Data Structures and Algorithms, Operating Systems, Object-oriented Programming, Relational Databases, Computer Networking, Software Engineering, Computer Systems, Applied ML

## EXPERIENCE

### Software Engineering Intern

*Playsquare Inc.*

Apr 2025 – Aug 2025

*Remote*

- Implemented an asynchronous exam processing system using Kafka's producer-consumer architecture
- Developed a BBS platform for 1,000+ users with 4 access levels, enabling posts, comments, and notifications
- Integrated file handling features (upload, download, preview) with validation and metadata management
- Designed Kafka messages to transmit essential exam data to a marking engine, reducing message size by 25%

## PERSONAL PROJECTS

### FitzCode - E-Commerce Website

Feb 2025 – Mar 2025

*Spring Boot, MyBatis, Thymeleaf, Docker, AWS, Jenkins*

- Designed database schema of 43 tables, ensuring scalability and integration with external APIs
- Developed (PLP/PDP) and order pages, including cart, checkout, payment, coupons, and order history
- Configured and implemented Spring Security to manage user authentication and role-based access control, including OAuth login, session management, and secure API endpoints by implementing CustomUserDetailsService
- Deployed a CI/CD pipeline to automate application builds, tests, and deployments reducing release time by 50%
- Designed a large-scale data transfer layer with 40+ DTOs and 20+ enums to ensure type-safe communication

### Jelly - Online Trading Platform

Oct 2024 – Nov 2024

*Java, JSP, MySQL, Tomcat, jQuery, AJAX*

- Designed ERD and optimized table structures by denormalizing and indexing tables to improve query performance
- Developed a social platform for users to follow, comment, post, like, and save content to enhance engagement
- Applied MVC design pattern (Controller, DAO) to separate concerns and improve maintainability of the codebase
- Implemented dynamic UIs to provide real-time interactions across 3+ screen sizes, improving accessibility

### Pawlog - Full Stack Logging Platform

July 2025

*Node.js, React, Oracle*

- Designed and implemented RESTful APIs to handle CRUD operations for logging, saving, and retrieving activities
- Optimized SQL queries and normalized Oracle database schema to improve data integrity and query efficiency
- Implemented state management in React to ensure user experience and data synchronization across components

### Premier League Match Outcome Predictor

Oct 2025

*Python, Scikit-Learn, Pandas, NumPy*

- Designed full end-to-end ML pipelines for match prediction using datasets of 5,000+ soccer matches
- Performed EDA to detect skewness, outliers, missing targets, and class imbalance, applying imputation strategies
- Evaluated models (Ridge, KNN, SVR with RBF kernel, Random Forest) using cross-validation
- Conducted hyperparameter tuning and model comparison, summarizing insights on performance and characteristics

## TECHNICAL SKILLS

**Languages:** Java, C++, Python, PHP, JavaScript, TypeScript, HTML, CSS, SQL (MySQL, Oracle)

**Technologies:** Spring (Boot, Security, WebSockets, JPA), Ajax, React, Node.js, Git, Docker, Jenkins, AWS

**Concepts:** System Design, CI/CD, JWT, Encryption, Microservices, Backend, Message Queues, Networking, Agile