Zhenkang Xu

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Education

B.S. Science, Honours Specialization in Computer Science　　　　　　　　　　Expected May 2027
University of Western (GPA: 3.80 / 4.00)　　　　　　　　　　　　　　　　　　*London, Ontario*
- **Dean's list:** 2023-2024, 2024-2025
- **Relevant Coursework:** Data Structures and Analysis, Algorithm Design and Complexity, Operating System, Database, Project Management, Computer Organization/Architecture, Software Engineering, Machine Learning, AI

Experience

Topdance Studio　　　　　　　　　　　　　　　　　　　　　　　　Mar 2024 – Aug 2025
Founder　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Vancouver, BC*
- Founded and led a dance studio, planning and executing class programs, performances, and events by defining scope, timelines, and resource allocation.
- Coordinated instructors, students, and external partners, tracking progress, resolving scheduling conflicts, and managing day-to-day risks to keep activities on schedule.
- Managed budgets, pricing, and operational priorities, using structured tracking tools to monitor costs, capacity, and outcomes across multiple concurrent initiatives.

ItemLookBook　　　　　　　　　　　　　　　　　　　　　　　　May 2022 – Aug 2023
Software Engineer Intern　　　　　　　　　　　　　　　　　　　　　　*Vancouver, BC*
- Developed and maintained features for a clothing retail platform, supporting product listings, inventory updates, and basic order workflows using JavaScript and modern web tools..
- Assisted with internal tools and workflows for store operations, including data updates, bug fixes, and small feature enhancements to improve day-to-day efficiency.
- Collaborated with non-technical team members to translate business needs into simple technical solutions, following existing code standards and version control practices.

Projects

VirtualPet | *Java, Swing/AWT, Google Gson, Junit*
- Built a Java Swing desktop app with an MVC architecture, separating UI, business logic, and data models to improve maintainability and enable parallel feature development.
- Implemented event-driven gameplay interactions, and debugged state-management issues during testing to improve stability.
- Applied agile methodology through the SDLC, coordinating feature delivery and QA to ship on schedule.

SmartScheduler | *C++, Qt*
- Developed a C++/Qt scheduling application with a modular architecture; applied OOP and event-driven UI handling to manage user actions and calendar updates cleanly.
- Wrote unit tests with GoogleTest for core scheduling components to catch regressions early and improve reliability of key algorithms.

Pre-IPO MarketPlace | *React, TypeScript, Vite, Elixir, Phoenix, PostgreSQL*
- Built a full-stack pre-IPO secondary marketplace featuring real-time order books, trade feeds, and deal room workflows using React (TypeScript, Vite, TanStack Query) and Elixir Phoenix.
- Implemented a price-time priority matching engine with partial fills and transactional consistency, enabling reliable buy/sell order execution and balance updates.
- Delivered WebSocket-based live updates for order books, trades, and user notifications, integrating Phoenix Channels with a PostgreSQL-backed API layer.

Technical Skills

Languages: Java, C++, Python, JavaScript, HTML, CSS, SQL
Technologies: React.js, Node.js, Kubernetes, Docker, OpenShift, Git, Github, Qt, Swing
Concepts: Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, API, Database Normalization, Agile Methodology, Cloud Computing, SDLC