

# Justin Wei

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## EDUCATION

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### Simon Fraser University

*Bachelor of Science in Computer Science*

Burnaby, BC

*Expected 2028*

- Relevant Coursework: Data Structures, Algorithms, Discrete Mathematics, Computer Systems

## TECHNICAL PROJECTS

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### Real-Time Arbitrage Platform | *Rust, Python, React, FastAPI, PostgreSQL* | [arbot.app](https://arbot.app) | October 2025 – Present

- Architected and deployed a full-stack arbitrage detection system processing real-time odds data across 11 sports from different prediction markets and sportsbooks
- Engineered a Rust-based matching engine using PyO3, reducing event-pairing latency by 30x compared to the original Python implementation
- Identifying 95+ daily arbitrage opportunities with 9% average edge, processing \$6,400+ in daily volume
- Designed fuzzy matching algorithms with time-based correlation to accurately pair events across platforms with inconsistent naming conventions
- Implemented order book depth analysis to calculate liquidity-adjusted odds and filter opportunities by profitability thresholds
- Built responsive React dashboard with real-time updates, JWT authentication, role-based admin console, and automated Discord notifications

### Crypto Escrow Web Application | *Go, React, LitecoinJS*

July 2025 – August 2025

- Developed a full-stack MVP enabling secure peer-to-peer trading on the Litecoin testnet with automated escrow settlement
- Implemented Go backend handling wallet generation, transaction signing, and conditional fund release upon trade confirmation
- Built React frontend with real-time transaction status updates and intuitive trading interface

### Redis-Compatible Data Store | *Rust, TCP/WebSocket*

December 2025 – Present

- Developing a high-performance in-memory data store with Redis protocol compatibility to support real-time arbitrage detection infrastructure

## EXPERIENCE

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### Computing Instructor

October 2025 – Present

*Chinese Language and Culture Institute (SD43)*

*Coquitlam, BC*

- Instruct classes of 10-15 students in Python and Scratch programming fundamentals, developing curriculum focused on computational thinking and problem-solving
- Provide individualized mentorship and code reviews, helping students debug projects and understand core programming concepts
- Evaluate student progress through practical assessments, delivering constructive feedback to support skill development

### Private Tutor

September 2021 – December 2024

*Self-Employed*

*Coquitlam, BC*

- Provided one-on-one tutoring in Calculus and Pre-calculus, adapting teaching methods to individual learning styles
- Collaborated with teachers and parents to track student progress, resulting in improved grades and comprehension

## TECHNICAL SKILLS

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**Languages:** Python, Go, TypeScript, Rust

**Frameworks:** React, Node.js, FastAPI, Express

**Libraries:** PyO3, Polars, NumPy, curl.cffi, Clerk

**Developer Tools:** Git, Docker, Linux, WebSockets, PostgreSQL, AWS, DigitalOcean