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## Andrew Zhou

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## Personal Summary

Indie game developer. Diligent and artistic. Meticulous about numbers and organizing data.  
Passionate about coding and writing stories.

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## Education

### Bachelor of Science in Physics (UBC)

*Statistical Mechanics* PHYS 403

*Honours Linear Algebra* MATH 223

*Data Structures and Algorithms* CPSC 221

Java 8 Programmer (Oracle)

PCB Design and Prototyping Certificate (UBC)

Class 5 Driver's License (ICBC)

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## Technical Skills

- **Frameworks:** Spring Boot, AngularJS, Next.js, FastAPI, Scrappy
  - **Libraries:** React.js, SciPy, NumPy, Pandas, Matplotlib, Scikit-Learn, Scikit-Image
  - **Database Tech:** MySQL, PostgreSQL, SQLite
  - **Cloud Tools:** AWS, Google Cloud, Heroku, Vercel, Supabase
  - **Build Tools:** Maven, Gradle, Webpack, Docker
  - **Editor Tools:** VSCode, IntelliJ
  - **CI/CD:** YAML, GitHub Actions, Heroku Procfile
  - **APIs:** AWS Polly, Stable Diffusion, Postman
  - **Hardware:** MSP430 Microcontroller, K210 AIMotion Visual Module, C286 microSD, Oscilloscopes, Multimeter
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## Work Experience

### Elite Prep | Tutor (Mar 1 2025 - Ongoing)

- Helping high school students excel in Physics and Mathematics.

### Steamoji | Facilitator (Nov 2024 - Ongoing)

- Provided mentoring for 5-6 students making science projects.

### Walmart | Frozen/Dairy Associate (May 2022 – Dec 2022)

- Provided assistance to customers, managed inventory and stocked up shelves in Frozen/Dairy area, sometimes rotated to other departments.

### Scope Media | Intern (May 2022 – Aug 2022)

- Scraped data from NFT marketplaces using Scrapy, collecting and integrating NFT items into databases on server

#### **Confucius Institute | Teacher Assistant (Jan 2017 – May 2020)**

- Took care of students and marked their homework assignments and exams
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### **Laboratory & Technical Skills**

- Chemical Handling & Safety
  - Electronics & Circuit Testing
  - PCB Soldering
  - Power tools & Mechanical Prototyping
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### **Projects**

Coding projects are on GitHub: <https://github.com/AndrewZhouMQ123>

#### **PHAS ELAB Timed LED PCB (Sep 2024 - Oct 2024)**

- Designed, prototyped, assembled and tested PCB with power module and signal amplifier module
  - Control LED flashing using NE555 with adjustable power resistors to adjust frequency, gain and offset.
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### **Lab Course Work**

#### **High-Temperature Superconductivity (YBCO) | Phys 409 Lab**

- Investigated the power law relation for Meissner effect in YBCO superconductors utilizing Lock-In Amplifier's analog detection mechanism.
- Handled liquid nitrogen and hydrogen gas for cryogenics

#### **Positron Emission Tomography (PET) Demonstration | Phys 409 Lab**

- Conducted a proof-of-concept experiment for PET imaging and reconstructed radiation distribution images using 2D Radon Transform algorithm.

#### **MSP430 Microcontroller Water Level Monitor | Phys 319 Lab**

- Designed and programmed a microcontroller-based real-time water level monitoring system.