

# Geoffrey Jiang

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## EDUCATION

### University of British Columbia

*Bachelor of Science, Major in Computer Science*

- 4.0/4.33 GPA (86%)

Vancouver, BC

Sep. 2023 – May 2027

## TECHNICAL EXPERIENCE

### Developer Coordinator

*nwPlus UBC*

May 2025 – Present

Vancouver, BC

- Responsible for updating hackathon websites, admin, and application portals with React and Firebase.
- Manage workflows, deployments, and changes with Gitlab while collaborating with design teams through Figma.
- Attend weekly meetings and socials, proactively communicating blockers and partnering with logistics and marketing to remain on schedule.

## PERSONAL PROJECTS

### Trading Strategy Back Testing Platform | *React, TradingView API, AWS Amplify, Zustand* Mar. 2025 - Present

- Leading frontend development for a financial web platform in a team of 6 that enables traders to backtest customized trading strategies, secured **\$5000** initial seed funding via a startup incubator program.
- Implementing advanced data visualization of 100+ data points using TradingView Lightweight Charts API to display strategy performance, market trends, and essential financial indicators.
- Utilized Zustand to efficiently manage global state, keeping network information hidden and accessible.
- Migrated hosting service to AWS Amplify, ensuring scalable infrastructure and a clear CI/CD workflow.

### kNews Full Stack Web Application | *React, Next.js, Django, OpenAI API, Docker, Vercel, Render* Feb. 2025

- Designed and developed an end-to-end AI-powered news aggregation platform to provide users with a concise and categorized summary of current events fetched from the Guardian.
- Built a scalable REST API using Django REST Framework, integrating Redis caching to reduce redundant API calls and improve successive request speeds from **~10s to ~200ms**.
- Implemented AI-powered summarization via OpenAI API, using prompt engineering techniques to generate concise, informative summaries with an accuracy rate of **~95%** in capturing key information.
- Containerized the application with Docker and deployed the backend on Render, leveraging automated container orchestration for scalable and self-managed hosting, and eliminating manual server maintenance.

### Croak Quest – nwHacks 2025 | *Unity, LeapMotion, C#* Jan. 2025

- Developed and led the creation of an award-winning 2D platformer game that teaches American Sign Language (ASL) through real-time hand gesture recognition, selected as **Best Beginner Project** out of **700+** participants
- Engineered the hand-tracking and gesture recognition system using Leap Motion, enabling players to control their character exclusively through hand motions, integrating education with motor skills and hand-eye coordination.

### WellSpring - nw HackCamp 2024 | *React, Next.js, NewsAPI, Figma* Nov. 2024

- Led 4-person frontend development team of a student wellness platform using Next.js and React, placing as a finalist and winning recognition for **Most Accessible Design** out of **250 participants**.
- Designed and implemented responsive UI/UX through Figma wireframes and integrated News API to create dynamic content feed of wellness resources, implementing efficient data fetching and error handling.

## TECHNICAL SKILLS

**Languages:** JavaScript/TypeScript, Java, Python, C/C++, SQL, Assembly, HTML/CSS, R, Bash

**Frontend Development:** React, Next.js, Vite, Zustand, Redux, Angular, Material UI, TailwindCSS, WebGL, jQuery

**Backend Development:** Node.js, Express.js, Django, Redis, REST API, Spring Boot, Firebase

**Databases & APIs:** SQLite, PostgreSQL, MongoDB, OpenAI API, GuardianAPI, NewsAPI, TradingView API

**Developer Tools & Other:** Git, Docker, Vercel, Figma, Pandas, Conda, Matplotlib, scikit-learn, Unity, Render, AWS