

# John Grey

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## EDUCATION

### University of British Columbia

Expected Graduation May 2027

*Combined Major in Computer Science and Business - Honours*

*Vancouver, BC*

- **Relevant Courses:** Data Structures and Algorithms, Object-Oriented Programming, Computer Systems, Software Construction, Discrete Mathematics, Functional Programming, Calculus I and II
- **Awards:** Legion Medal of Excellence, KC Lett Scholarship, Alexander Rutherford Scholarship, Gordon Welling Scholarship, Canada Company Scholarship
- **Other Involvements:** Partnerships Director @ UBC BizTech, nwHacks 2025, BizChina Case (1st Place)

## TECHNICAL SKILLS

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

**Frameworks:** React.js, Node.js, Express.js, Next.js, Tailwind, JUnit

**Developer Tools:** Git, GitHub, VS Code, Supabase, Firebase, Docker, PostgreSQL, SQLite, PowerBI, Excel

## EXPERIENCE

### Fullstack Developer

Mar 2024 – Present

*UBC Biomedical Engineering Student Design Team*

*Vancouver, BC*

- Increased **88%** in site traffic and engagement by leading a redesign of the website from collected feedback.
- Maintained a **99.9%** uptime and simplifying team updates by deploying on **Vercel** with **CI/CD** pipelines.
- Boosted follower count by **20%** by using UX principles on the frontend in collaboration with the media team.

### Informational Technology Intern

Jun 2022 – Aug 2022

*Department of National Defense*

*Saguenay, QC*

- Selected as **one of six cadets nationwide** to use PowerApps to improve the cadet experience to prototype a Uniform Measurement App to streamline uniform distribution, size matching, and inventory management.
- Developed the cadets.ca website with **HTML** using the Government of Canada's **Adobe Experience Manager**.
- Created data visualization models with **PowerBI** to analyze the cadet website and Microsoft 365 engagement.

## PROJECTS

### Video Sharing Platform | *TypeScript, Next.js, Express.js, FFmpeg, Firebase, Google Cloud*

[View Github](#)

- Built a video-sharing platform using **Google Cloud services**, integrating **Firebase** store uploaded videos.
- Implemented **Pub/Sub** to communicate for video processing between **Cloud Firestore**, and **Cloud Storage**.
- Reduced environment setup time by **50%** by deploying using Docker, creating a faster deployment cycle.

### Stock Trading Simulation | *Java, JavaScript (JSON)*

[View Github](#)

- Designed a Java application using **Object Oriented Programming** to simulate realistic market operations.
- Ensured **100% code coverage** through **JUnit** Testing to ensure software functionality and bug prevention.
- Built responsive GUI with **JSwing** and **JTable** libraries to visualize buy and sell prices, and portfolio history.

### Music Playback Platform | *React.js, JavaScript, TypeScript, Supabase, PostgreSQL, Tailwind*

[View Site](#)

- Developed a full-stack music-playing web page through **Next.js**, **React** and **Tailwind CSS** for song playback.
- Integrated **Supabase** for user authentication to safely store uploaded songs, user information, and liked songs.
- Utilized **Stripe** API to process transactions and model after Spotify Premium's monthly subscription system.

## LEADERSHIP EXPERIENCE

### Business and Computer Science (BUCS) Co-Chair

Mar 2024 – Apr 2025

*BUCS Community Team - Commerce Undergraduate Society UBC*

*Vancouver, BC*

- Managed a budget of **\$5600** across 10 events for **350+** students in the Business and Computer Science program.
- Increased hiring applications by **200%** and expanded the team with **2 new** positions and **4 additional hires**.
- Boosted student participation by **68.2%** across **4+ initiatives** through feedback forms and student surveys.