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Timothy Wang

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Technical Skills

- **Languages**: C++, Java, Python, C, JavaScript, Dart, Bash
- **Frameworks and Technologies**: React, Flutter, MySQL, Node.js, Express, Unix/Linux
- **Developer Tools**: Git, Google Cloud Platform, Amazon Web Services (EC2/S3), Docker

Employment

Software Engineer, Intern **Uncaught Exception** **Summer 2022**

- Implemented NFT Wallet portfolio feature using data from Etherscan and SimpleHash API.
- Fetched, organized, and cleaned data on top 200+ NFT collections and stored using Google Firebase.
- Used Google Cloud Scheduler and Compute Engine to update owners of NFT collections hourly.
- Handled 20+ tickets on technical interview training website for software engineers.
- Created algorithmic problems, test cases, and solutions in Python, Java, JavaScript, and C++.

Teaching Assistant **Duowei Education** **Fall 2020 – Spring 2022**

- Taught advanced algorithms and data structures to 20+ students for programming competitions (Canadian Computing Competition, USA Computing Olympiad, etc.)
- Prepared lectures on C++, Algorithm Design, and Time & Space Complexity Analysis.
- Prepared lessons and problem sets on algorithms and data structures such as Dijkstra's algorithm, Dynamic Programming, and Heavy-Light Decomposition.

Software Developer **Crescent Coyotes** **Summers 2018 – 2020**

- Developed features of scouting app for reporting and visualizing robot analytics.
- Optimized site reliability for more than 100+ concurrent users.
- Used React frontend and Express + Node.js + Firebase to send and receive data on 300+ robots.

Projects

- **Password Management System**: Created full-stack password manager with React frontend and fully specified CRUD backend using Node.js, Express, and MySQL relational database.
- **Flappy Bird Clone**: Flappy Bird clone using Java and the FX library while utilizing object-oriented design patterns for increased readability and easy extension in the future.

Awards and Achievements

- **Bronze Medal, Computing Olympiad:** Placed 13th out of 3000 (Top 1%) official Canadian contestants and invited to the University of Waterloo to compete in competitive programming.
- **Schulich Leader Scholarship:** Selected as recipient of $80,000 STEM scholarship for University of Toronto in Computer Science and Statistics.
- **AIME:** Top 5% of American and Canadian high school students in the American Mathematics Contest (AMC), invited to participate in the American Invitation Mathematics Examination

Education

Waterloo, ON **University of Waterloo** **Fall 2021 – May 2026**

- Bachelor of Computer Science, taking advanced stream CS courses. In-major GPA: 3.95