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Toronto, ON

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

Content Creator, Intern	**AlgoMonster**	**May 2022 – Aug 2022**

- Developed a comprehensive technical interview training website for software engineers.
- Authored and reviewed 20+ dynamic programming patterns, examples, and solutions.
- Created and revised 30+ algorithmic problems, test cases, and solutions.
- **Technologies Used:** C++, Java, Python, JavaScript

Software Engineer, Intern	**Uncaught Exception, Rarity**	**May 2022 – Aug 2022**

- Developed web3 NFT Wallet portfolio app using Flutter frontend and Firestore NoSQL backend.
- Retrieved data from Etherscan, SimpleHash, Alchemy API for user owned NFTs and transactions.
- Implemented Google Cloud Scheduler and Compute Engine to update Firestore owner data on 200+ NFT collections hourly.
- **Technologies Used:** Dart, Flutter, Google Cloud Platform (Cloud Engine + Scheduler, Firestore)

Teaching Assistant	**Duowei Education**	**Sept 2020 – April 2022**

- Taught advanced algorithms and data structures to 20+ students for programming competitions (Canadian Computing Competition, USA Computing Olympiad, IOI).
- Prepared 75+ lectures on C++, Algorithm Design, and Time & Space Complexity Analysis.
- Executed and curated 100+ problems on algorithms and data structures such as Dijkstra's algorithm, Dynamic Programming, and Heavy-Light Decomposition.

Education

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

Bachelor of Computer Science (BCS). In-major faculty GPA: 91.3%

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.