



# Kevin Zhu

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## EDUCATION

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### University of Waterloo

*Bachelor of Computer Science; GPA: 4.00/4.00*

Waterloo, ON

*Sep 2022 – Present*

## SKILLS

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**Languages:** Python, Java, Javascript, Typescript, Python, C++, C, Ruby, Bash

**Technologies:** Node.js, React.js, MySQL, Git, Next.js, Ruby on Rails, Bitbucket, JIRA, Notion, Figma

## EXPERIENCE

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### Central Station (Digital Marketing Company)

Toronto, ON

*Software Developer*

*Jul 2023 – Dec 2023, Full-time*

- Developed the marketing website and an e-commerce platform for a pharmaceutical business client using Next.js, Ruby on Rails (Spree Gem), and docker; contributed significantly to both front-end and back-end development
- Created critical features, including reusable components, dynamic forms, and Paypal integration, according to Figma design files and within specified timelines
- Designed, implemented, and tested RESTful API's using MVC model in Ruby on Rails
- Developed scripts for data cleaning in large datasets and defined database schemata optimized for querying using SQL

### Central Station

Toronto, ON

*Software Developer*

*Jan 2024 – Present, Part-time*

- Rehired by Central Station in recognition of significant input to the project and exceptional performance during the co-op period; currently preparing for project deployment and launch

### Acentury Inc.

Richmond Hill, ON

*Researcher*

*Nov 2021 – Dec 2021, Part-time*

- Researched and understood optimization methods such as Gauss-Newton, Least square, and Nelder-Mead methods
- Delivered informative Powerpoint presentations to the project team, and answered questions related to the optimization methods which received positive feedback from colleagues

## AWARDS & ACHIEVEMENTS

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**Co-op Student of the Year Nominee (2023):** Nominated for exceptional effort at Central Station

**CSC Winter Project Kickoff Champion (2023):** Awarded 1st place out of 100+ participants in the Project Showcase with Dreamscape

**CMO Participant (2022):** Invited to the Canadian Math Olympiad and placed in top 40

**Faculty of Mathematics Scholarship (2022):** Received a \$10,000 award for outstanding accomplishments in high school math competitions

## PROJECTS

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### Dreamscape | Computer Science Club Winter Project Kickoff | [GitHub](#)

- Social Media Platform allowing users to share their dreams and generate images based on those dreams utilizing DALL-E, Next.js, and Firebase
- Independently designed and developed front-end; collaborated with team member to integrate with back-end
- Mastered web development technology Next.js and TailwindCSS within one month

### Tetra | CS246 Final Project

- Multiplayer Tetris for players to battle each other in 4 game modes and 5 levels using C++, Xming GUI, and Ncurses library for TUI; collaborated in a group of 3 using Git as Version Source Control
- Implemented design patterns in C++ such as decorator pattern, factory method pattern, observer pattern, etc.
- Optimized code efficiency using data structures and algorithms
- Wrote detailed documentation on design ideology, implementation, and features