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# Yuhan Zhao

6 Yans Way, L3R 0J8, Markham, Ontario • 4168778489 • aidenzhao@hotmail.com •  
linkedin.com/in/yuhan-zhao-aiden • https://github.com/Yuhan-Zhao-Aiden

## Full Stack Developer

Full Stack Developer specializing in React, Next.js, and TypeScript, with experience building scalable web and consumer-facing applications. Strong understanding of end-to-end web architecture including HTTP, REST APIs, and database systems. Proven ability to collaborate in team environments, write maintainable code, and deliver high-quality user experiences. Passionate about continuous learning and building production-ready software.

## SKILLS

**Programming Language:** C#, C/C++, HTML/CSS, JavaScript, Python, TypeScript

**Frameworks & Libraries:** Bootstrap, Express.js, Framer Motion, Next.js, React.js, Shadcn ui, Tailwind CSS

**Database:** MongoDB, Oracle SQL

**Tools & Platforms:** CI/CD, Git, Jira, Linux, macOS, Visual Studio Code, Windows

**Concepts:** Authentication (JWT), HTTP, Responsive UI, REST APIs, Web Architecture

## EDUCATION

### Advanced Diploma in Computer Programming and Analysis

Seneca Polytechnic • GPA: 3.8

01/2024 - 12/2025

- Developed strong programming skills in languages such as C++, and JavaScript
- Obtained hands-on experience in software development, object-oriented programming and database design
- Learned best practices in debugging, testing, and version control while working on collaborative coding projects

### Bachelor of Science in Statistics and Machine Learning

University of Toronto

09/2019 - 12/2023

- Gained a solid foundation in statistical theory, data analysis, and machine learning algorithms
- Developed proficiency in programming languages such as Python

## PROJECTS

### StoryForge — Collaborative Storytelling Platform

09/2025 - 12/2025

GitHub Repo | Live Demo

- Led development of a collaborative storytelling platform with a **node-based visual editor for branching narratives**
- Built core application features including the **story editor, real-time collaboration rooms, image uploads, and user dashboards**
- Designed REST APIs and integrated **MongoDB persistence for story data and user content**
- Coordinated a **5-developer team using GitHub issues, milestones, and pull requests** to manage development workflow

- Received **A+ course evaluation and strong instructor feedback** for system design and collaboration features

**Technologies:** Next.js, TypeScript, Node.js, MongoDB

### LeiTu — Satellite Intelligence Landing Page

01/2026 - 03/2026

GitHub Repo | Live Demo

- Developed a modern, responsive **React + TypeScript** landing platform showcasing **SAR-based intelligence capabilities** and enterprise solutions
- Designed reusable UI components using **Tailwind CSS** and **Radix UI**, improving consistency and scalability across multiple sections
- Implemented **hash-based routing** and optimized page structure for seamless **single-page navigation** and performance
- Focused on **accessibility and UX best practices**, including responsive layouts, semantic structure, and improved content readability
- Translated complex technical concepts into **clear, user-facing interfaces** through structured content and design

**Technologies:** React, TypeScript, Vite, Tailwind CSS, Radix UI

### The MET — Metropolitan Museum of Art Explorer

01/2025 - 03/2025

GitHub Repo | Live Demo

- Built a **Next.js full-stack web application** for browsing and searching the Metropolitan Museum of Art's **470,000+ artwork collection** using the Met Collection API.
- Implemented **JWT-based authentication** with a custom **Express REST API**, enabling user registration, login, and protected routes.
- Developed **personalized user features** including favourites and automatic search history tracking, persisted through backend APIs.
- Designed a responsive interface with **Tailwind CSS and shadcn/ui**, including advanced search filters, paginated galleries, and detailed artwork pages.
- Applied core web principles including **HTTP requests, RESTful APIs**, and **client-server data flow** to build a scalable application

**Technologies:** Next.js, React, Tailwind CSS, Express.js, JWT Authentication, SWR, Jotai, React Hook Form, REST API

## VOLUNTEERING & LEADERSHIP

### Answer Tea

Web Developer • Toronto, ON

- Designed and built a modern digital menu using **React.js and Tailwind CSS**
- Collaborated directly with the client using an **Agile workflow**

## AWARDS & SCHOLARSHIPS

### President's Honour List

Seneca Polytechnic

08/2024

### Pascal Mathematics Contest

University of Waterloo

03/2014