

Ben Zhou

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C++, Python, Java, SQL (Sqlite, MySQL), Bash, HTML, CSS
Technologies: Next.js, React, Node.js, Flask, MongoDB, Redis, TailwindCSS, ESP32, Arduino, Raspberry Pi
Developer Tools: Git, Google Cloud Platform, VSCode, Eclipse, Linux, Soldering, PCB Design, 3D Printing

EXPERIENCE

- Innovation Developer Co-op Student** Feb. 2024 – Present
SAP Toronto Toronto, Ontario
- Implemented **API integrations** with **OpenAI's ChatGPT** to enhance user experiences and enable intelligent interactions within the application ecosystem.
 - Utilized **SAP Business Technology Platform (BTP)** to develop and integrate innovative solutions, seamlessly integrating with **Firestore** and **Firebase Authentication** for efficient data management and user authentication.
- FullStack Development Lead** November. 2023 – May 2024
EurekaHacks 2024 Oakville, Ontario
- Led a team of 3 while coordinating with other departments to create a modern and responsive website to help advertise our event.
 - Improved SEO to help gain over **2.3k** impressions in under 3 months.
 - Integrated form system using Tally to help reach event capacity a month before the event.
- Programming Instructor** Sep. 2023 – Present
Triway Education Markham, Ontario
- Taught a full curriculum of **18 lessons** to improve programming skills and knowledge in Java and Python.
 - Provided personalized tutoring to students preparing for the AP Computer Science A (AP CSA) exam.

PROJECTS

- Spotify Macroboard** | [GitHub](#) | *C++, Next.js, TypeScript, PCB Design* Feb 2024 – Present
- Created a fully custom macro keyboard by designing a PCB, a 3D chassis, and programming an ESP32 to connect and interact with my API using my rewritten version of an outdated C++ library.
 - Designed an API hosted on my website to retrieve and manage Spotify states, further integrated this with RGB lighting and colour retrieval.
- UniPlanner - 1st Place @HDSBHacks** | [GitHub](#) | *Next.js, Prisma, Tailwind, TS, Mongo* May 2023 – Present
- Implementing full authentication system with JWT, third-party services, encryption of all sensitive data, along with a secure payment system.
 - Rewriting application to leverage server-side rendering and caching strategies in Next.js.
 - Used Prisma to design a new, efficient MongoDB schema, enhancing data integrity and improving query performance.
- FlashNotes - 3rd Place @HackTheRidge** | [GitHub](#) | *TypeScript, Next.js, Tailwind* December 2023
- Developed a website that could take images of notes and generate flashcard sets to study from.
 - Fully integrated OpenAI's vision model with Image OCR technology.
- bTagScript Playground** | [Site](#) | *Flask, Python, HTML, CSS, JavaScript, MySQL* Jan 2022 – May 2023
- Created a new and improved dynamic language with new debugging features.
 - Designed a flask API to serve requests and log data through MySQL
 - Helped debug **14.1k+** **programs**, and recently migrated to a new host to ensure **99.90%** for all users

EDUCATION

University of Waterloo Waterloo, Ontario
BASc in Computer Engineering Sep. 2024 – April 2029