Ben Zhou

Burlington, Canada
benzhou.tech • LinkedIn • GitHub

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Bash
Technologies: Flask, React, Next.js, MongoDB, Redis, TailwindCSS, HTML, CSS, Arduino, ESP32
Development/Misc: Git, GitHub, Linux, Soldering, PCB Design, 3D Printing

PROJECTS

Spotify Macroboard • C++, ESP32, Next.js, TypeScript
- Created a fully custom macro keyboard by **designing a PCB**, and a 3D chassis, I also **programmed an ESP32** to connect and interact with an API I created while further rewriting an outdated **C++ library**
- Designed an API that would further interact with **Spotify's API**, giving me complete access to all of my music

FlashNotes • Next.js, TailwindCSS, TypeScript
- Fully led a team of 3 to win and create the **3rd Overall** project at HackTheRidge
- Meshed OpenAI's Vision API with **Image OCR technology** to generate flashcards from any image of notes or material

Eureka Hacks 2024 • Next.js, React, JavaScript
- **Managed a team of 4** while working with other departments to create a **responsive modern website** for our school's annual hackathon
- SEO to help gain around **1000 impressions** in the first few months of publicly releasing the site

bTagScript Playground • JavaScript, Python, Redis, Flask, HTML, CSS
- Created an interpreter based on an older language with new **debugging features**, and designed an API to handle requests so that users could access it online
- Aided **9000+** users in testing their programs, and recently migrated to a new host to ensure **99% uptime** for all users

UniPlanner • Next.js, MongoDB, TailwindCSS, TypeScript
- Recreating my **first-place submission** to Halton District School Board Hacks 2023, UniPlanner helps students manage university applications in a centralized system
- Implementing **full authentication** with third-party services, **encryption** of all sensitive data, and a **secure payment** system

WORK EXPERIENCE

Innovation Developer Co-Op Student   February 2024 - Present
SAP d-Shop Toronto   *Toronto, Canada*
- Selected as **1 of 2** afternoon co-op students throughout the GTA to collaborate with mentors at SAP dShop Toronto, contributing to **cutting-edge innovation** projects within the organization
- Assisting in developing and implementing innovative solutions by leveraging **SAP technologies** to address real-world business challenges and **enhance customer experiences**
- Gaining invaluable hands-on experience working with **industry experts** and actively contributing to the **innovation** culture at SAP

Programming Teacher   November 2023 - Present
Triway Education   *Oakville, Canada*
- Taught students how to program in **Java** effectively, introduced them to **competitive programming** concepts and ideas
- Planned and taught a full curriculum of **18 lessons** to improve **fundamental programming** skills and knowledge

EDUCATION

Abbey Park High School   September 2020 - Present
Working towards Ontario Secondary School Diploma (OSSD)   *Oakville, Canada*
- Executive of Programming, Computer Engineering, and Chess Club
- Varsity Badminton Team, Men's Singles