

BENJAMIN(YUETIAN) ZENG

Waterloo, Ontario, Canada

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Technical Skills

Languages: JavaScript/TypeScript, CSS/SCSS, HTML, C++, C, Java, SQL

Frameworks: Node.js, Express, EJS, React.js, SpringBoot, jQuery, Bootstrap

Tools: Visual Studio Code, PostgreSQL, MongoDB, Git, GitHub, Postman, Latex, pgAdmin

About

- Hello, I'm Benjamin, an ambitious Electrical Engineering student at the University of Waterloo. I'm particularly passionate about full-stack web development and machine learning. Committed to continuous learning, I am enthusiastic about delving into new challenges and exploring innovative solutions in both software and hardware.

Projects

Simon Game | *JavaScript, HTML/CSS, jQuery* | [🔗](#)

Mar 2022

- Developed a Simon Game web application using HTML, CSS, and JavaScript, allowing users to play and interact with a dynamic and responsive game interface.
- Implemented game logic for level progression, color sequence generation, and user input validation, enhancing the overall user experience and ensuring seamless gameplay. Utilized **jQuery** for event handling and dynamic element manipulation to create a smooth and engaging gaming experience.

Login Page | *JavaScript, Node.js, EJS, Express, PostgreSQL* | [🔗](#)

Mar 2022

- Build a secure web application backend using **Express.js** and **PostgreSQL**, integrated **bcrypt** for password hashing and **Passport.js** for local and **Google OAuth2 authentication**, ensuring user authentication and data storage.
- Utilized **EJS templating** engine for dynamic web page rendering, managed user sessions with **express-session**, and leveraged environment variables with **dotenv**, enhancing user interactivity, security, and application configuration.

Geesespotter | *C++* | [🔗](#)

Mar 2022

- Created a University of Waterloo styled minesweeper game using C++.
- Implemented functions to creating and marking field, revealing field, compute neighboring geese counts, determine win conditions, and validate field reveal and mark actions, ensuring proper gameplay functionality and user interaction.

Permalist | *JavaScript, CSS, Node.js, Express, PostgreSQL* | [🔗](#)

Mar 2022

- Built a CRUD (Create, Read, Update, Delete) web application using **Node.js**, **Express**, and **EJS** to manage and display a list that allows users to make changes, ensured a seamless user experience.
- Integrated **PostgreSQL** database with the application, implementing asynchronous database operations using pg client for efficient CRUD functionalities and data management.

Experiences

Office Assistant

Dec 2022 - Jan 2023

MPP Logan Kanapathi's Office

Markham, ON

- Led a team of 4 to make door-to-door outreach aimed at inviting local residents to participate in community activities.
- Employed Excel for office documents, speech drafts, resident feedbacks data entry, ensured the database remained accurate and well-organized.

Math Tutor

Mar 2022 - Present

High School & University

Markham & Waterloo, ON

- Provided tutoring to 3 high school students in Grade 12 Math courses, improved in their academic scores by 10%.
- Helped over 6 university classmates with C++, Calculus and Linear Algebra, used my tricks to enhance their understanding and grasp of difficult questions and complex concepts.

Education

University of Waterloo

Sept 2023 - Apr 2028 (Expected)

Bachelor of Applied Science in Electrical Engineering Honours Coop

Waterloo, ON

- Cumulative Average: **88.92%**
- **Dean's Honours List** for 1A
- President's Scholarship of Distinction.
- Core Curriculum: Fundamentals of Programming(C++), Classical Mechanics, Linear Algebra, Calculus

Achievements

- * Placed in the **top 25%** in 2022 **Canadian Senior Mathematics Contests** & **2023 Euclid Contest**.
- * Honoured with **Ontario Highschool Scholar** & Unionville High School's Honour Roll.