

YunFeng Zhang

(613)-985-9503 feng.zhang1@uwaterloo.ca [linkedin.com/in/yunfengzhang/](https://www.linkedin.com/in/yunfengzhang/) github.com/fengzhang789

Technical Skills

Languages: JavaScript, HTML/CSS, Python, LaTeX, Racket, Processing, C, SQL, Bash, R

Technologies/Frameworks: React, Node, Express, MongoDB, Git, Docker, Jest, Postman, Nodemon, Django

Education

University of Waterloo

Sep 2023 – Apr 2028

Canadiante for Bachelor of Computer Science

CGPA: 3.94

Experience

Frontend Developer

May 2022 – Jan 2024

Homeworkhub Tutoring

Waterloo, ON

- Orchestrated the development and maintenance of a highly responsive website, seamlessly connecting community of over **1500** volunteer tutors, parents, and students on a monthly basis
- Optimized website performance by refactoring the entire site with React, leveraging Million.js, and employing lossless compression techniques, achieving a remarkable **2.3 s** reduction in website loading time (LCP)
- Elevated website SEO by incorporating appropriate metadata, including Open Graph Protocol metadata, and utilizing appropriate HTML5 semantic tags, increasing the average SEO and accessibility rating to 85 on Lighthouse

Frontend Developer

Jul 2022 – Jan 2023

XdHacks Mini Vancouver

Remote

- Collaborated with a team of UI/UX executives to implement website designs using HTML, CSS, and the Django framework, meeting a demanding **3 month deadline** and delivering a website serving over 100 hackathon participants
- Managed and coordinated the event by promptly addressing technology errors and responding to hacker inquiries, showcasing excellent problem solving and communication skills
- Implemented and mastered best practices in continuous integration (CI) through Git and Github, resulting in seamless collaboration among 22 developers across diverse branches

Projects

Billify 🗑 | *React, Express, MongoDB, Node, Docker, Python, Postman*

Jan 2024

- Spearheaded the development of a full-stack medical billing codes generator for practitioners using the MERN stack and Natural Language Processing, resulting in time savings of up to 20 minutes on billing tasks
- Integrated **Google Cloud's Healthcare NLP API** using Postman and Express, achieving exceptional accuracy in identifying and extracting relevant keywords and context from medical documents
- Leveraged Axios and Cheerio to scrape and seamlessly insert **6,500+** medical billing codes from the Government of Ontario into MongoDB, allowing keyword-based searches for automatic billing code generation
- Containerized the entire app using Docker for improved portability and continuous integration processes

BlockXism 🗑 | *React, Express, MongoDB, Node, TailwindCSS, Solidity*

Nov 2023

- Integrated a robust **user authentication system** onto the Ethereum blockchain by creating a smart contract in Solidity, significantly elevating the security of the blockchain
- Designed and implemented a dynamic CRA admin panel using React, Express, and MongoDB, offering an user-friendly interface for monitoring and tracking unauthorized transactions, enhancing transparency within the blockchain
- Forged a localized Ethereum blockchain using Ganache, providing a simulation environment for transactions across the blockchain, allowing for testing and validation of blockchain functionalities

Graphing Calculator 🗑 | *Processing, g4p Graphical User Interface*

Jan 2023

- Engineered a graphing calculator with **explicit function graphing** and **tangent line visualization** capabilities using Processing and the g4p library, enabling users to effortlessly plot complex mathematical functions with precision
- Used the **Shunting Algorithm** to transform expressions involving functions and constants from infix to an Abstract Syntax Tree, while using a hash map to save specific coordinates, minimizing recalculation

Achievements / Awards

Meta Professional Frontend Developer (Jan 2024): Completed a 7 month course on React taught by Meta

Best Blockchain Hack (Nov 2023): Awarded the best blockchain hack by the CRA at Hack Western 10

FARMSA Stock Pitch Finalist (Nov 2023): Placed top 5 out of 30 teams in university-wide stock pitch

GVMA Scholarship (May 2023): Awarded \$2,000 for exceptional academic achievements and extracurricular activities