# John Zhang

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in linkedin.com/JohnZhang

github.com/jonz9

My-Personal-Website

# **Technical Skills**

Frameworks/Libraries: Next.js, React.js, Vue.js, Node.js, Express.js, Tailwind, Three.js, ShadCN Languages: TypeScript, JavaScript, Python, Java, C, C++, Solidity, VHDL, HTML / CSS, LaTeX Tools: MongoDB, SQL, AWS, Firebase, Firestore, Postman, Docker, Figma, ESP32, STM32

# Experience

#### **UI/UX Designer Intern**

May 2024 - Present

**FutureVault** 

Toronto, Ontario

- Collaborated with cross-functional teams to align on project goals and design deliverables, building prototypes that reduced project turnaround time by 10%
- Conducted client research through usability testing, product components, and understanding to gain insights and build product features that highlight user needs and avoids pain points
- Created wireframes, mockups, and interactive prototypes using Figma, Illustrator, and Adobe XD to visualize design concepts and user interaction flows

#### Software / Firmware Developer

Sept 2023 - April 2024

UWaterloo BioMechatronics Design Team

Waterloo, Ontario

- Configured ESP32 client-side program for data transfer over BLE Wi-Fi communication and improved program build time by 7%
- Enhanced EMG sensor feedback in terminal display by debugging and documenting data variables, improving usability and performance
- Researched and documented Kalman Filter algorithm for effective data filtering implementation into the system to reduce noise and inaccuracies

#### **Computer Technician Intern**

June 2022 - Aug 2022

reBoot Canada

Toronto, Ontario

- Deconstructed, repaired, and refurbished 200+ laptops / PCs by replacing hard drives, RAM, and keyboards, to ensure they were up to store standards
- Assisted the reBoot team with online sales by confirming purchases and shipping out 100+ products
- Provided customer service both in-person and over the telephone to guide potential customers and provide product troubleshooting

#### **Projects**

**Verity** | React.js, Node.js, Express.js, MongoDB, Docker, Solidity, AstroKode

Verity

- Designed and developed a comprehensive charity management web application that ensures transparency in donations and traceability of donation designations
- Implemented a robust CRUD API to effectively register, manage, and retrieve a charity's data from a dataset, optimizing data handling and accessibility
- Utilizes smart contracts built by AstroKode to seamlessly interact with the ledger on the blockchain network

Movie Retail Website | Vue.js, HTML/CSS, JavaScript, API (TMDB), Firestore, Axios, Pinia

MovieStore

- Developed a dynamic movie retail platform by integrating real-time movie data from the TMDBMovies API, displaying concurrent information
- Implemented robust user authentication and routing protocols, ensuring the secure access and intuitive navigation for users
- Facilitates seamless movie purchases through integration with a backend database powered by Firestore

# Education

# **University of Waterloo**

Expected April 2028

Bachelor of Applied Science in Computer Engineering (GPA: 3.9 / 4.0)

Waterloo, Ontario

• Relevant Coursework: Digital Circuits & Systems, Linear Circuits, Fundamentals of Programming (C++), Electricity and Magnetism, Discrete Mathematics and Logic, Linear Algebra for Engineering, Project Studio (STM32, C)