

# John Zhang

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## Technical Skills

**Frameworks:** 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, Git, Firebase, Firestore, Postman, Docker, Figma

## Experience

### UI/UX Designer Intern

May 2024 – Present

*FutureVault*

*Toronto, Ontario*

- 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
- Collaborated with cross-functional teams to align on project goals and design deliverables, building prototypes that reduced project turnaround time by 10%

### 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, JavaScript, Node.js, Express.js, MongoDB, Docker, Solidity, AstroCode

🔗 CryptoKet

- 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
- Uses smart contracts built by AstroCode to seamlessly interact with the ledger on the blockchain server

**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)