Zhenhao Yang

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Summary

Full Stack Developer with 2+ years of hands-on experience building modern, responsive web applications. Expertise in **JavaScript/TypeScript, React, Vue.js, Node.js, Java, Python**, and **RESTful APIs**. Proven track record of improving application performance by up to 40%, delivering mobile-first user interfaces, and modernizing legacy systems. Strong foundation in **mathematics and statistics** with exceptional **UI/UX design skills**. Experienced with **CI/CD, internationalization (i18n)**, and **AI integration**. Trilingual in **English, French, and Mandarin**.

Projects

- **PrimeVue Kit** – Open-Source UI Component Library
  - Developed **InputDateMask**, a custom **Vue 3** component combining masked input with inline date picking for enhanced user experience
  - Built with **TypeScript, Vue 3 Composition API, and PrimeVue** framework
  - Published to **npm** with complete documentation and examples
  - Implemented comprehensive input validation and customizable date formatting
  - Source Code | Available via **npm/pnpm**

- **Portfolio Website**
  - allenyzh.com

Professional Experience

Oodaris AI

Hybrid - Montreal, QC | *Full-Stack Engineer* | *Jan, 2026 - Present* | oodaris.ai

NeverNull Tech Inc.

Contract - Remote | **Full-Stack Developer** | *May, 2025 - Jan, 2026*

- **WatsonBio** | *Jul, 2025 - Present* | Project Link

  - Rebuilt entire website using **Astro & React**, achieving **3 second page load time** and **40% performance improvement**
  - Developed **file-based CMS** using **Markdown/MDX** for dynamic content management, reducing update time by 60%
  - Engineered responsive, reusable UI components with **TypeScript** and **Tailwind CSS** for consistent brand experience
  - Integrated **Cloudflare Turnstile** for bot protection and **Google Analytics** with cookie consent management
  - Optimized **SEO** structure, improving search engine visibility and organic traffic by 25%
  - Refactored UI/UX flow for product pages, increasing user engagement and conversion rates

- **C-file V2.5 - Insurfact** | *May, 2025 - Present* | Project Link

  - Led modernization of 20-year-old enterprise insurance platform, transforming legacy system into responsive web application
  - Developed and optimized UI components using **Vue.js** and **JSF**, improving load time by 90%
  - Implemented **i18n (Internationalization)** supporting **English and French**, expanding market reach
  - Architected reusable component wrapper system, reducing code duplication by 40% and accelerating development
  - Delivered **mobile-first** responsive design, achieving 100% mobile compatibility across iOS and Android
  - Resolved critical legacy front-end issues, improving application stability and maintainability

Graphic Designer & UI/UX Specialist

Quebec Deaup, Montreal, QC | *2021 - 2023*

- Designed **marketing materials**, applying design principles
- Created **marketing materials** using **Figma** and **Adobe XD**
- Utilized **Adobe Creative Suite** (Photoshop, Illustrator, InDesign) for high-fidelity prototypes and digital assets
- Applied **color theory, typography, and layout principles** that enhance current web application UI/UX design

Hackathon – TaxAgentServer

John Abbott College | *Apr. 26, 2025* | Source Code

- Built **AI-powered tax filing assistant** using **Python, Playwright, and Google GenAI** to automate tax return process
- Implemented **browser automation** with Playwright for seamless web form interaction and data extraction
- Integrated **Google Generative AI** for natural language processing and intelligent tax guidance
- Developed automated workflow reducing manual tax filing time by 70%

Hackathon – MTLove

ConUHacks IX, Concordia University, Montreal, QC | *Feb. 2, 2025* | Live Demo | Source Code

- Developed interactive **AI-powered dialogue game** using **React, Vite.js, Zustand**, and **React Router**
- Engineered responsive UI with **Tailwind CSS**, delivering seamless experience across desktop and mobile devices
- Integrated **AI-driven emotional analysis** for dynamic, personalized player interactions
- Implemented state management with **Zustand** for efficient real-time dialogue flow
- Collaborated with team to optimize AI response time and dialogue authenticity

Education

Bachelor of Science in Mathematics and Statistics

Concordia University, Montreal, QC | *2023 - Expected 2027*

- **Relevant Coursework**: Calculus, Linear Algebra, Probability & Statistics, Mathematical Modelling, Data Structures, Algorithms
- **Programming Courses**: Java, C++, Object-Oriented Programming
- **Technical Projects**: Developed responsive web applications, conducted UI/UX testing, implemented React.js applications

Professional Development – Web Development

Intensive Programming Bootcamp | *2023 - Present*

- Completed comprehensive training in **modern web development technologies**: HTML5, CSS3, JavaScript, TypeScript, React, Vue.js, RESTful APIs
- Built **full-stack applications** with React and Node.js, creating responsive, mobile-first layouts
- Gained expertise in **API integration**, asynchronous programming, and state management
- Hands-on experience with **MCP server setup** and **Generative AI integration** via API calls
- Applied **version control (Git)**, code optimization, debugging, and software development best practices

Technical Skills

- **Frontend Development**: React, Vue.js, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS, Astro, JSF, Vite.js
- **Backend Development**: Node.js, Express.js, RESTful APIs, Java, Python
- **Programming Languages**: JavaScript, TypeScript, Java, C++, Python
- **State Management & Routing**: Zustand, Pinia, React Router

- **Tools & Platforms**: Git, GitHub, Cloudflare, Playwright, Google Analytics, npm/pnpm
- **Web Technologies**: Responsive Design, Mobile-First Development, SEO Optimization, i18n (Internationalization)
- **AI Integration**: Google GenAI, API Integration, Browser Automation, MCP Server/Client
- **UI/UX & Design**: Figma, Adobe Creative Suite (Photoshop, Illustrator, InDesign)
- **Mathematics & Analysis**: Calculus, Linear Algebra, Probability, Statistics, Data Visualization
- **Languages**: English (Fluent), French (Fluent), Mandarin (Native)