

Yoen Zhang

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Summary

iOS and Full-Stack Developer with experience across four organizations, delivering impactful mobile and web solutions for millions of users. Passionate about performance optimization, data-driven development, and scalable future-proof software.

EDUCATION

University of Waterloo | Bachelor of Computer Science (Honours)

Sep. 2020 – Apr 2025 | Waterloo, ON

TECHNICAL SKILLS & TOOLS

Languages: Python, Swift, JavaScript, TypeScript, Java, C/C++, PHP, MySQL, HTML/CSS, jQuery, Racket

Tools & Frameworks: SwiftUI, UIKit, React, Flask, PyTorch, Vue.js, Express.js, Laravel, Node.js, MongoDB, Pandas, NumPy, Tkinter, Kivy, Selenium, BeautifulSoup4, Git, CI/CD Pipelining, Docker, Bootstrap, OpenCV

EXPERIENCE

Mobile Software Developer - iOS | ESPN Bet, theScore

Toronto, ON | Jan 2024 – Aug 2024

- Completed **120+ tickets** over **8 months**, including **20 independent feature implementations** in the first month, earning recognition as the **top-performing intern**
- Developed and launched two major **UI features**, the **"Parlay Lounge"** page and **"MyBets 3.0"** redesign using **Swift** and **UIKit**, enhancing engagement for **over 2.5 million monthly active users**
- Led the iOS team in building the **"Parlay Lounge"** feature using **SwiftUI**, delivering it **four weeks ahead of schedule**, strengthening the company's competitive positioning

Frontend Developer | Mozilla

Toronto, ON | Sep. 2022 – Dec 2022, May 2023 – Aug 2023

- Designed and managed **A/B experiments** enrolling **10,000-1,000,000+ users**, influencing key **Firefox** features, influencing **product strategy and user experience** decisions for millions of users worldwide
- Upgraded and overhauled an internal **SCRUM tracking tool** using **React**, improving **ticket logging, bug reporting, and workload management**. Integrated custom tagging to replace manual JIRA processes, enabling more accurate tracking and boosting **team ticket output by 200%**
- Collaborated with team leads to resolve **50+ critical issues**, implement new features, and deploy platform updates, improving overall product stability and performance

Fullstack/Backend Developer | Mobials Inc

Toronto, ON | Jan 2022 – Apr 2022

- Enhanced **AutoVerify's API** using **PHP**, allowing **1,000+ business clients** to offer real-time pre-approvals for insurance and vehicle estimates
- Optimized **SQL queries**, cutting execution time by **50%**, and leveraged **Postman** for API testing to improve data accuracy and system efficiency
- Resolved **critical API bugs** and implemented **automated testing frameworks**, increasing platform stability and long-term reliability

Fullstack Developer | Goodfood Market Corp

Toronto, ON | May 2021 – Aug 2021

- Developed **full-stack data anonymization scripts** using **Laravel** and a **Vue.js** interface, allowing internal teams to securely hash or remove customer data based on subscription changes
- Migrated and optimized **over 1.5 million user records** and **10+ million data points** using **MySQL queries**, ensuring alignment with evolving business models and subscription plans
- Built an internal HR tool using **REACT** to streamline **user management and customer report logs**, improving customer support operations

PERSONAL PROJECTS

Suggestify | github.com/yoenzhang/Suggestify | Python, PyTorch, React Native, Flask, FAISS, MFCCs

- Designed an AI-powered music recommendation app inspired by **Shazam**, leveraging **MFCC-based audio fingerprints** and **FAISS indexing** to match user-input audio against a database of **8,000+ songs**
- Built a **Flask** backend with a **React Native** front-end, enabling real-time song identification and AI-driven suggestions based on user input

StatCheck | github.com/yoenzhang/StatCheckWeb | Python, Swift, React, NBA API

- Developed an iOS app using **Swift** and **React**, integrating the **balldontlie.io API** to fetch real-time NBA statistics for players dating back to 1946