

Yoen Zhang

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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, SQL, HTML/CSS, Racket

Frameworks/Libraries: SwiftUI, UIKit, React, Flask, Vue.js, Express.js, Laravel, Node.js, Bootstrap, Apache

Tools/Technologies: Git, Docker, CI/CD, MongoDB, MySQL, Pandas, NumPy, PyTorch, OpenCV, Selenium, Docker

EXPERIENCE

Mobile Software Developer - iOS | ESPN Bet, theScore

Toronto, ON | Jan 2024 - Aug 2024, May 2025 - Aug 2025

- Completed **120+** tickets over **8 months**, including **20+ independent features** within the first month; recognized as the **top-performing intern** company-wide
- Led iOS development for the "**Parlay Lounge**" & "**LiveStream 2.0**" using **SwiftUI**, collaborating with product & design to launch **4 weeks ahead of schedule**, improving roadmap velocity
- Developed & shipped two flagship UI features: "**Parlay Lounge**" & "**MyBets 3.0**", utilizing **Swift & UIKit**, driving engagement across **2.5M+** monthly users
- Refactored Casino-native components into **modular, reusable SwiftUI packages**, enabling **cross-team adoption** & improving code consistency across the mobile platform

Data Pipeline Engineer - Undergraduate Research Assistant | TRAFFIC

Remote - London, UK | May 2025 - Aug 2025

- Designed and deployed an end-to-end **Airflow pipeline** to ingest, deduplicate, and classify global ivory-trafficking news from sources like Google Alerts and NewsAPI
- Developed a custom **NLP & LLM extraction module** using **GPT-3.5** for structured seizure event parsing; reduced manual triage and annotation time by **60%**
- Trained a **Logistic Regression classifier** with TF-IDF to score article relevance; implemented continuous inference with logging for model drift detection
- Built robust **data scraping and enrichment pipelines** using Python, BeautifulSoup, and PostgreSQL with retry logic and idempotent task execution
- Orchestrated local and cloud deployment via **MWAA (Managed Airflow)**, S3, and RDS; led secure PostgreSQL schema design and Airflow credential configuration

Frontend Developer | Mozilla

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

- Designed & managed **A/B experiments** enrolling **10,000-1,000,000+** users, influencing key **Firefox** features, **product strategy** & **user experience** decisions for millions of users worldwide
- Integrated backend telemetry with **Glean SDK**, contributing to large-scale data aggregation in cross-platform experiments
- Developed modular & reusable **React** components for internal platforms, enabling adoption across **5+ engineering teams** & standardizing UI patterns company-wide
- Upgraded an internal **SCRUM tracking tool** using **React** & integrated custom tagging to replace manual JIRA processes, improving bug reporting & increasing team ticket output by **200%**
- Developed automated **Node.js** scripts to populate **Looker dashboards**, reducing manual reporting time & streamlining data visibility for internal stakeholders

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 & vehicle estimates
- Architected **RESTful APIs** for partner integrations, ensuring stable consumption by automotive vendors
- Optimized **SQL queries** by **50%**, leveraging **Postman** for API testing to improve accuracy & system efficiency
- Automated PHP Unit tests** & **CI/CD pipelines** for backend services, reducing deployment bugs by **40%**
- Collaborated with DevOps to integrate API services with monitoring tools like **New Relic/Sentry**, improving backend observability & debugging speed

Fullstack Developer | Goodfood Market Corp

Toronto, ON | May 2021 - Aug 2021

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

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

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