

Yilun(Harvey) Sun

8350 W Desert Inn Rd, Las Vegas, NV | 707-408-2388 | newharvey2025@gmail.com

Experience

Software Engineer

Jun. 2021 – Present

Jubilee Furniture International, e-Commerce

Las Vegas, NV

- Built a custom product builder using React/NextJS handling 50+ customizable options, implemented Redux for state management with normalized data patterns, resolved performance bottleneck by strategic component memorization (React.memo, useMemo), resulting in a 32% decrease in Interaction to Next Paint (INP) to 202ms.
- Built admin interface with Polaris for a rule-based discount system with Apollo Client, integrating GraphQL APIs and implementing optimistic UI updates and data prefetching, reduce end-to-end latency by 25% to 800ms.
- Collaborated with UI/UX designers to develop responsive component library adhered to ARIA standards, using Liquid and JavaScript, implemented reusable custom react hooks to decrease code redundancy by 26%.
- Driven A/B tests of exit-intent discount pop-ups using Optimizely, integrating custom event tracking in Google Analytics 4 to measure engagement metrics, optimized trigger timing and discounts, resulting 8.7% raise in conversion rate.
- Enhanced deployment reliability by implementing CI/CD pipeline with GitHub Actions and Docker on GCP, integrated automated testing for UI components with Cypress, optimizing build processes that reduced deployment time by 35%.

Software Engineer

Oct.2020 – Mar.2021

Intelligent Dots, Healthcare

Atlanta, GA

Algorithm

- Engineered a reliable ETL pipeline implementing Apache Airflow DAGs for orchestrating medical sensor data processing from edge devices to InfluxDB time-series database, visualized via Grafana dashboards.
- Architected a robust Python data analysis framework using NumPy and Pandas to validate medical device time series measurements according to FDA 21 CFR Part 11 compliance standard.

Web

- Designed responsive UI components with Tailwind CSS and React for hospital patient monitoring system, integrated with WebSocket connections for live updates.

iOS Software Developer

Oct.2019 – May.2020

Duke Mobile Application Center

Durham, NC

- Designed a school-life management iOS app user interface in Xcode, implementing SwiftUI for UI components and UIKit for complex interactions.
- Collaborated to implement schedule syncing from personal Outlook calendars using Swift's EventKit framework. Leveraged Microsoft Graph SDK for iOS to directly access calendar data through authenticated GraphQL API calls.

Education

Duke University

NC, United States

Master of Science in Electrical and Computer Engineering

Aug. 2018 – May 2020

Wuhan University of Technology (WUT)

Hubei, China

Bachelor of Engineering in Electronic and Information Engineering

Aug. 2014 – May 2018

Technical Skills

Languages & Frameworks: HTML5, CSS, JavaScript, Typescript, SQL, Liquid, React, Redux, Node.js, Express, Remix

Tools & Others: Tailwind, Docker, MongoDB, Express, Jest, Cypress, REST API, Agile