Telvin Zhong

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WORK EXPERIENCE

Nuro **January 2022 – Present**
Software Engineer Mountain View, CA

- Designed, productionized, and maintained a full-stack system to remotely configure partner branding for Nuro's autonomous delivery vehicles, reducing the engineering time required to brand customer deliveries and investor demos by over 99%.
- Led a complex frontend rearchitecture for fetching, calculating, and displaying the source of truth for order information using React and Typescript. Collaborated effectively with Product and Design to define business requirements, timelines, and rollout strategies.
- Designed and built an error detection system to optimize identifying and surfacing delays at pickup and dropoff, vehicle errors, missing vehicle assignments, and failure to generate autonomous routes, reducing operator TTD for order related errors by 80%.
- Implemented a mission-critical flow for dispatching orders and advancing order states that allows recovery from bad states, greatly reduces risk from telemetry issues, and guarantees the ability to complete an order without onboard health dependencies.
- Developed a tool to enable real-time (every 30 seconds) monitoring and troubleshooting of mock order generation, resulting in a 50% reduction in manual intervention and increased vehicle uptime in gathering autonomous miles and validating routes.
- U.S. Patent Application No. 63/424798 – Door Interlock for Autonomous Vehicles.

Braze **June 2021 –August 2021**
Software Engineer Intern New York, NY

- Created a line chart component with responsive hover states using React and Typescript from architecture to deployment.
- Coordinated the creation of a new charting library across multiple teams and gathered requirements for the frontend component roadmap in an org-wide effort to improve company branding after going public in an $8B IPO.
- Added end-to-end Cypress tests to mock frontend user flows and Jest unit tests to validate cross-browser component rendering.

Coursera **January 2021 – April 2021**
Software Engineer Intern Mountain View, CA

- Developed scalable Java microservices to streamline the migration of $10M worth of external course content to Coursera.
- Created an automated workflow for unpacking and mapping external course content from AWS to native Coursera models into a continuous deployment pipeline, resulting in target educators saving 65% more time when building Coursera courses.
- Identified and resolved multiple security risks for Course Creation APIs in Scala and increased team unit test coverage.

Open Water Accelerator **September 2020 – December 2020**
Software Engineer Intern San Francisco, CA

- Launched the user portfolio MVP for Project ANT, a social platform for connecting freelancers and showcasing work portfolios.
- Designed and built PostgreSQL database architecture and drove key decisions around long-term maintainability and performance.
- Created and tested Typescript APIs for integrating with AWS and implemented single sign-on user authentication with Passport.js.

Develop for Good **August 2020 – December 2020**
Volunteer Developer Stanford, CA

- Developed a mobile android application designed to transfer data at scale for the CARE Yemen Youth and Women Initiative.
- Created Java APIs for user registration, login, and logout and added SDK integration with Firebase databases.

TECHNICAL PROJECTS

Git It Done (First Place) | Braze Hack Day **August 2021**

- Developed a GitHub widget using TypeScript to allow engineers to accept or defer PR review requests via Slack integration.

Konek AI | TOHacks **May 2021**

- Created a Slack bot AI that parses a chosen Wikipedia article to accurately answer open-ended questions in a Slack channel.
- Built a Python server for handling user input and implemented RESTful APIs to communicate with Open AI and Wikipedia.

EDUCATION

Northeastern University | M.S. Computer Science (GPA: 4.0) **December 2021**

- President of Microsoft Student Partners

UCLA | B.S. Chemistry, Minor in Science Education **June 2019**

- GSE&IS Dean's Scholar, UCLA Regents Scholar (40 per year), Segal AmeriCorps Education Award

SKILLS

Languages: TypeScript, JavaScript, Python, Go, Java, C++
Frameworks: React.js, Node.js, React Native, Express, Spring
Databases: MySQL, PostgreSQL, MongoDB, Redis, SQLite,
Tools: Docker, Kubernetes, Git, Linux, GraphQL, AWS