

DAVID CHEN
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EDUCATION AND SKILLS

University of California, Davis – B.S. Computer Science

Programming Languages: Golang, Java, JavaScript, Python, F#

Tools/Frameworks: React, SQL, Databricks, Datadog, MongoDB, Docker, React Native, Buildkite, Git, AWS, GCP

PROFESSIONAL EXPERIENCE

Lula, Inc – Senior Full Stack Engineer - Palo Alto, CA / Remote

04/2023 - 11/2023

- Improved Lula's data ingestion pipeline that powers Lula's car insurance products.
 - Standardized data ingress flow for different telematics providers such as Samsara and Motive.
 - Improved accuracy of ingested data. Worked with stakeholders to deprecate an error-prone, in house deduplicate logic in favor of using an off-the-shelf solution (Fivetran)
 - Identified and addressed deficiencies in manual and integration test coverage. Uncovered and patched multiple bugs which led to overall improvement in data accuracy.
 - Actively working with the team's product manager to scope features and plan the team's roadmap.
- Within several months of joining the company :
 - Self-onboarded and delivered full API integration with an IoT provider, Bouncie, enabling Lula to collect data from Bouncie customers and service them at a lower premium. (F#, SQL, GCP)
 - Led the development of a trucking onboarding flow that enabled LULA to collect telematics data from leads at an earlier stage, reducing underwriter workload. (JavaScript/Next.js)
 - Identified a bug within the F# programming language to be the root cause of a data pipeline outage. Lead the outage resolution and data backfill..
 - Revamped Lula's new hire onboarding process. Personally onboarded a new developer onto the team who shipped code on day one. Worked with SVP of Engineering to evangelize the onboarding process.
 - Worked with senior leadership to improve many aspects of Lula's engineering processes, such as design docs, PR reviews, integration test coverage, and postmortems.

Samsara, Inc (NYSE: IOT) – Full-Stack Developer - San Francisco, CA / Remote

12/2019 - 11/2022

- Rotated onto the data ingestion team. Maintained, debugged and improved Samsara's data ingestion pipeline.
 - Implemented a debug tool used to identify service replicas responsible for handling a particular time series datapoint as it moves through the data ingestion pipeline. (AWS kinesis, AWS EC2)
 - Designed a process to partition a data ingestion service, which upon completion, would increase memory headroom from 4GB to > 20GB per sharded service while maintaining AWS cost.
 - Triaged an OOM incident that occurred in the data presentation layer and attributed the cause to a fan-out of one GraphQL query. Worked with other stakeholders and presented various solutions to rate-limit.

Other notable full-stack work:

- Took over an internal debugging tool project from the backlog. Drove the project to its release and achieved an 88% adoption rate 2 weeks after GA. Distributed ownership of the project post-release so others may contribute.
 - Designed and implemented multiple reusable React components during development. Documented examples and standardized coding styles for new contributors.
 - Hosted weekly demo sessions with early adopters. Collected and iterated on user feedback. After completion, drove adoption via organizational-wide presentations.
- Lead developer of Sasmsara's firmware version management system, which is used by program managers to deploy firmwares across millions of IoT devices.
 - Designed and implemented user interface. Hosted design review sessions with beta users and UX designers. Written in React.JS.
 - Designed GraphQL and gRPC endpoints and delegated that work to a backend team.
- Designed several APIs that enabled third-party integrations to fetch vehicle time-series data from the Samsara platform at scale. This integration enabled key deals in the education market.

- Proposed a vehicle-to-device linking feature on the mobile app (React Native). Drove the feature from a hackathon MVP to production, enabling our customers to link IoT devices to their vehicles on their phones.

Phil, Inc - Backend Engineer – San Francisco, CA

05/2018 - 11/2019

- Spearheaded the design, deployment, coding, testing, and architecture, of a wholesale drug management tool
 - Integrated with the FDA Drug Database to ensure the correctness of data entry. Data entered with the new tool became the source of truth and is fully integrated into the platform.
 - Automated a previously manual and error-prone process., saved the company hundreds of man-hours and support tickets, and noticeably improved the accuracy of metrics collection
- Led the migration to the official MongoDB Golang Driver after demonstrating performance improvement
- Leveraged Twilio API to collect key information from patients through SMS. Maintained patient conversion rate while reducing the workload of patient support specialists

QuanticMind, Inc - Backend Engineer – Redwood City, CA

06/2017 – 01/2018

- Worked on Google advertisement bidding pipeline. (Docker, Java)

General Electric (NYSE: GE) – Software Engineering Specialist – San Ramon, CA

10/2016 – 7/2017

- Containerized applications from the host operating system into Docker microservices, allowing customers to manage each microservice through GE Predix Cloud. (Docker, Java)