**Zefeng (Daniel) Wang**

*No sponsorship required*

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**EXPERIENCE**

**Software Engineer** *@ Datadog July 2022 – Present*

* Accelerated delivery of Event Management product to public beta, fixing critical reliability issues blocking launch
* Researched, designed, and **individually implemented end to end testing suite** for complex, event driven system
* Introduced rate limiting in pipeline to protect core business logic and fixed browser tests to **reduce flakiness 90%**
* Implemented a dead-letter queue (Kafka) to improve reliability and facilitate replay pipeline in case of incident
* Worked with product/design stakeholders to redesign configuration UI, **increasing user retention 50%**
* Participated in on-call rotation, **leading response for dozens of incidents** and becoming expert for legacy system
* Enhanced culture by participating in processes such as mentoring new grads and leading new hire onboarding
* Initially worked on the Incident Management product, observing **~10% MoM user growth over 10 months**
* Launched workstreams feature to beta, with rapid adoption from internal/beta customers in high severity incidents
* Finisher on private visibility feature, updating ES schema, search facets, and maintaining backwards compatibility

**Software Engineering Intern** *@ Tesla September – December 2021*

* Enhanced observability for multiple microservices (Go, Python) by implementing distributed tracing using Sentry to identify bottlenecks resulting in **significant (>50%) decreases in p95 run time** for various API endpoints
* Reduced friction in developer experience by implementing Tilt and Helm charts to run app in local K8s cluster
* Migrated event streaming from RabbitMQ to Kafka to improve scalability and reduce downtime for users

**Engineering Summer Analyst** *@ Goldman Sachs June – August 2021*

* Productionized financial reporting program and conducted user acceptance testing with product stakeholders
* Leveraged caching and abstracted implementation to decrease flakiness and **improve calculator’s speed by 30%**
* Revamped API queries to ensure data is more highly available using modeling/functional language (PURE)

**Software Developer Co-op** *@ Intuit May – December 2020*

* Increased accessibility of metrics on the Observability team for QuickBooks Online product (Java Spring, Go)
* Created API for internal resource by implementing schema & CRUD functions for a MySQL database, configuring Elasticsearch index to improve search efficiency, and setting up infrastructure for Kubernetes cluster
* Improved readability of metrics using Micrometer and Hystrix (Spring), leveraging aspect-oriented programming

**Backend Web Engineer** @ *BusRight, Inc*  *November 2019 – November 2020*

* Developed password reset process (authn, email) and persistent notifications functionality (Firestore, SendGrid)
* Migrated backend from JavaScript to TypeScript to ensure code reliability and reduce technical debt
* Implemented Cloud Functions for daily data backup and profile picture actions triggered on user deletion/creation

**PROJECTS**

**GratitudeNU** (TypeScript, NextJS, NestJS, PostgreSQL)

* Developed full-stack application for users (200+) to play game together concurrently using server-sent events
* Implemented API using NestJS (Express.js) service/controller architecture to handle multiple users’ interactions

**MGH Video Journal** (React Native, TypeScript)

* Built mobile app using React Native that allows study participants (500+) to record videos uploaded to Dropbox
* Leveraged Google Cloud Function to authenticate users and sends files from Cloud Storage via Dropbox API

**SearchNEU** (NodeJS, React, TypeScript)

* Improved loading times ~30x and enabled simpler, filtered search through custom React dropdown component
* Migrated no-SQL data store to PostgreSQL using ORM and refactored web scraper using Cheerio (jQuery)

**COMPUTER KNOWLEDGE**

* **Languages:** Golang, Python, JavaScript/TypeScript (NodeJS, React), Java, HTML, CSS
* **Datastores:** PostgreSQL, Kafka, Elasticsearch, Redis
* **Tools/Libraries:** Docker, Kubernetes (Google Cloud, AWS), \*nix, Git, Bazel

**EDUCATION**

**Northeastern University**, **Khoury College of Computer Sciences** Boston, MA *Bachelor of Science in Computer Science & Business Administration (Magna Cum Laude)*  2022