**Zefeng (Daniel) Wang**

Availability: Full time July 2022 | *No sponsorship required*

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**EDUCATION**

**Northeastern University**, Boston, MA May 2022

**Khoury College of Computer Sciences** GPA: 3.82/4.00

*Candidate for B.Sc. in Computer Science & Business Administration (Finance) | Minor in Mathematics*

**Relevant Courses:** Algorithms and Data, Object Oriented Design, Statistics and Stochastic Processes, Computer Systems

**Honors and Awards:** Dean’s List, International Scholar, Top 10/Best Rookie Award at Hack Beanpot 2019

**COMPUTER KNOWLEDGE**

**Languages:** JavaScript/TypeScript (NodeJS, React), Java, Golang, Python, HTML, CSS, SQL, C,

**Tools/Libraries:** Docker, Firebase, Google Cloud (Firestore, Functions, Storage), JUnit, Kubernetes, Unix, NumPy, pandas

**Miscellaneous:** Git, GitHub, JSON, npm, RESTful APIs, XML, YAML

**EXPERIENCE**

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

* Enhanced observability for multiple microservices (Golang, Python) by implementing distributed tracing in Sentry to identify bottlenecks resulting in significant (>50%) decreases in p95 run time for various requests
* Reduced friction in developer experience by implementing Tilt and Helm charts to run app in local K8s cluster
* Migrating from RabbitMQ to Kafka to improve scalability and reduce downtime for user-facing applications

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

* Productionized financial reporting program and conducted user acceptance testing with product owner
* Revamped API queries to ensure data is more highly available using internal modelling/functional language (PURE)
* Reduced complexity by abstracting functionality and leveraging caching to decrease flakiness and improve speed by 30% for calculator program (IgnitePad)

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

* Improved accessibility of metrics using Java and Go on the Observability team for QuickBooks Online product
* Developed API in Go by implementing schema & CRUD functions on a MySQL database, configuring Elasticsearch index to improve search efficiency, and setting up infrastructure for Kubernetes cluster
* Used Micrometer and Hystrix (Java Spring) to create a filter for unnecessary data to improve readability of metrics
* Adopted Spring’s aspect-oriented programming to annotate metrics and decrease code complexity via abstraction

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

* Improved web API by adding new features, enforcing test-driven development, and increasing efficiency
* Developed password reset process by adding functionality to get info from database & send emails via SendGrid
* Enforced persistent notifications by writing endpoints to get/send notifications to collections in Cloud Firestore
* Added Cloud Functions for daily database backup and profile picture functions triggered on user deletion/creation

**Project Lead, Developer** @ *Sandbox at Northeastern*  *September 2019 - Present*

* Led team of five to build web-based game application for research client used in study with >200 participants
* Created multiple applications, including a mobile app used in a memory study and a web app with > 50,000 users

**Core Team – Sponsorship, Tech** @ *HackBeanpot Inc*  *May 2019 – Present*

* Organized annual hackathon for ~200 students, raising >$20,000 and improving technical infrastructure
* Led small team in revamping judging system to be more holistic by fixing scheduling algorithm and user-facing site

**PROJECTS**

**GratitudeNU** (TypeScript, NextJS, NestJS, PostgreSQL)January – April 2021

* Developed full-stack application for users to play game together concurrently using NestJS Server-Sent Events
* Implemented API using NestJS (Express.js) service/controller architecture to handle multiple users’ interactions
* Designed UI in NextJS (React) including an interactive game interface and React hook for managing sockets

**MGH Video Journal** (React Native, TypeScript)December 2020 – January 2021

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

**SearchNEU** (NodeJS, React, TypeScript) September *2019 – August 2020*

* Migrated data to relational database (PostgreSQL) by creating data models using Sequelize ORM
* Developed toggle and dropdown components in React to improve loading times ~30x and enable filtered search
* Refactored web scraper using Cheerio (jQuery) and enforced reliability using Jest framework and snapshot testing