**Zefeng (Daniel) Wang**

Availability: September – December 2021

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**EDUCATION**

**Northeastern University**, Boston, MA December 2021

**Khoury College of Computer Sciences** GPA: 3.78/4.00

*Candidate for Bachelor of Science in Computer Science & Business Administration (Finance)*

*Minor in Mathematics*

**Relevant Courses:** Algorithms and Data, Object Oriented Design, Linear Algebra, Computer Systems, Database Design

**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, Python, HTML, CSS, Golang, 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**

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

* Leading team of three developers and designer to build web application for research client
* Created mobile application for research client to study memory in older populations using React Native and Expo
* Implemented changes to SearchNEU, to ensure accurate, durable, and accessible data for over 50,000 users

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

* Engaged in agile environment to organize annual hackathon for approximately 200 Boston students
* Devised sponsorship packet and worked with dozens of companies to raise over $20,000 in financial backing
* Led team of three in revamping judging system for students’ projects to be more holistic and efficient
* Designed algorithm for judging scheduling to resolve shortcomings with prior technology
* Implemented interactive packet on website using React functional components and Gatsby.js

**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
* Developed various features (ex. custom navigation, pages, etc) using React Native components with Expo

**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
* Rewrote scraper classes that produce info from colleges’ sites with Cheerio implementation of jQuery
* Refactored JavaScript backend and enforcing reliability using Jest framework and snapshot testing