Zibing Zhang

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PROFESSIONAL EXPERIENCE

HubSpot, Dublin, Ireland — September – December 2022
Software Engineer Co-op, Backend

- Configured autoscaling for Kafka consumers, bringing 90th-percentile, max-user-lag from 1 hour down to 5 minutes
- Architected and implemented a new data aggregation system – replacing two partial, legacy systems – with new features including: pagination, authentication, complete asset type support, flexible request / response formats
- Devised a new integration connecting marketing events to campaigns exposing additional reporting metrics
- Normalized 4 different data formats during a data migration from an Apache HBase column of JSON strings to a table
- Updated outdated documentation to ease the team onboarding process as well as to aid in planned, future extension work

HubSpot, Cambridge, MA — June – December 2021
Software Engineer Co-op, Backend

- Designed and implemented new endpoints for backend services which reduced webpage load time by over 10 hours everyday across all users
- Streamlined a MySQL data migration of over 30 million records with no downtime to dependent services
- Initiated and hosted cross-team meetings to understand business needs and to present technological limitations when designing new features
- Introduced size-based rate limiting which prevented large volumes of requests from negatively impacting downstream services
- Built onto and maintained complex systems which leveraged Elasticsearch to provide the platforms searching functionality

PowerAdvocate, Boston, MA — January – August 2020
Software Developer Co-op, Fullstack

- Rebuilt and released Spend Intelligence, a web-based, analytics platform that provided clients with in-depth analyses regarding how they spend money
- Onboarded a group of 7 new hires and evaluated the remote onboarding process

PROJECTS

iCloud Contacts — November 2022
Python

- Reverse engineered Apple's iCloud Contacts REST API to programmatically update contacts and groups

Racket Online IDE — January 2022
TypeScript, webpack

- Extended CodeMirror to create a browser-based, Racket code-editor
- Developed a new language mode allowing for custom syntax highlighting
- Engineered a custom, in-browser interpreter which supports language features up to Intermediate Student Language with Lambda
- Hand-wrote a recursive-decent parser following the Racket reader specification
- Leveraged GitHub actions to continuously build and deploy the webpage

EDUCATION

Northeastern University
Khoury College — 2023
B.S. in Computer Science
B.S. in Mathematics
GPA: 3.90 / 4.00

Awards
Dean's List

Notable Coursework
Compiler Design
Programming Languages
Abstract Algebra

Clubs
Peer-Mentoring (AASIA)

LANGUAGES

Python	Java
TypeScript	JavaScript
Racket	OCaml
C	SQL
HTML	CSS

TOOLS

Git	SVN
JAX-RS	Apache Kafka
Guice	Maven
CI	Flask
React	webpack
Jekyll	LaTeX

SMALLER PROJECTS

Interpreter for Lox
Minesweeper using TKinter
Sudoku using Pygame
Number theory algorithms

OPEN SOURCE

google / latexify_py

INTERESTS

Epic Fantasy
Trick-Taking Card Games
Swimming
Rock Climbing