Simeng Yang

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EXPERIENCE

Microsoft | Software Engineering Intern, Business Al | Jan - Apr 2020 (Ongoing)

Working to enhance the performance and stability of Microsoft's ML prediction pipeline for business insights

Broadway Technology | Software Engineering Intern | May - Aug 2019

- Developed support for new class of trading instruments within Broadway's trade querying and subscription system using C++ and Python
- Enhanced trade times to microsecond precision by revamping code to the latest FIX trading protocol
- Reduced code complexity by refactoring Broadway's trading platform to use generic libraries / templates
- Unblocked critical software releases for clients through fixing 10+ showstopping code and environmental bugs

SnapTravel | Software Engineering Intern | Sept – Dec 2018

- Profited an estimated gross sales impact of \$5MUSD (GMV) in 2019 by developing a lovalty rewards Flask microservice for business travelers
- Enabled production launch by creating a dashboard to easily manage the lifecycle of loyalty credits in Diango
- Saved upwards of 50 hours / week by implementing a PDF library in Python to autogenerate and upload invoices
- Increased booking ratings by 0.2 / 5 stars by collaborating with product teams to redesign dynamic order emails

Novus Health | Software Engineering Intern | Jan - Apr 2018

- Decreased turnaround for publishing campaigns from hours to minutes by implementing a drag-and-drop UI for crafting medical questionnaires using React / Redux
- Reduced entry update times by 40% by composing and automating data import tools in PHP and SQL
- Exposed critical data for clinical requests by creating 10+ REST APIs to integrate with third-party services
- Improved developer productivity by implementing a text parser to autogenerate API documentation using Laravel

Genesys | Software Engineering Intern | May – Aug 2017

- Served hundreds of calls daily on the voice platform by building and deploying a media control suite for audio recording and playback in C++
- Boosted sound quality by up to 50% by extending support for the next-generation Opus audio codec
- Cut development wait times for pushed builds by 4x by implementing a build status report system in Python

EDUCATION

Bachelor of Computer Science | University of Waterloo | Sept 2016 - Apr 2021

• Coursework on Concurrency, Data Structures & Algorithms, Artificial Intelligence; President's Scholarship (95+%)

PROJECTS

3D Dogfighter % "Most Over-the-Top" Prize Winner at Waterloo Game Jam 2017

- Developed a multiplayer aerial combat game in C# with Unity
- Integrated server networking logic with matchmaking system for hosting 20+ concurrent users
- Designed combat and flight mechanics, user interface and 3D terrain for maps

Student Management System %

- Implemented a database to manage 1,000+ student records using LAMP Stack
- Designed robust input sanitation and validation using error handlers and regular expressions in PHP

SKILLS

Python, Java, JavaScript (ES6), C++, C#, Go, SQL, R, Bash Languages:

React, Redux, Flask, Spark, Node.js, Laravel, Django, Android, Docker, Redis, Git Frameworks/Tools: