Darren Zhang

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Education

Hunter College   *New York, NY*

BACHELOR OF ARTS - COMPUTER SCIENCE AND MATHEMATICS DOUBLE MAJOR, GPA: 3.96/4.0   *Dec 2021*

- Courses: Data Structure and Algorithms, Software Engineering, Open Source Software Development, Operating Systems, Database Management, Computer Theory, Software Analysis and Design (I, II, III), Computer Architecture (I, II), Probability Theory, Linear Algebra, Discrete Math

Stuyvesant High School   *New York, NY*

GPA: 93/100   *Sep 2015 - Jun 2018*

- Ranked #1 public high school in NYC

Experience

JPMorgan Chase & Co.   *New York, NY*

SOFTWARE ENGINEER INTERN   *Jun 2021 - Aug 2021*

- Increased throughput by 500% by retiring legacy APIs and rewriting in Python. Migrated legacy code, collected and aggregated historical rates data, and saved to dataframes and csv files using Pandas. Created autosys job that runs the script on business days, which backfills with additional dates and indices as new model requirements indicate, and alerts when source data is missing.
- Modified C++ code to account for my Python script generated files and Google Mocks and Google Tests to make valid results.

NYC Department of Transportation   *New York, NY*

FULL STACK DEVELOPER INTERN   *Jun 2020 - Aug 2020*

- Designed and implemented the user management UI and microservice to streamline obtaining user permissions, for 147 users.
- Implemented features such as user / usergroup details, filter, search, authentication and mapped out relationships between user, user group, function, function group, and routes. Deployed project using Docker and Kubernetes.
- Wrote API endpoints, complex SQL / LINQ queries, and constructed controllers from models following the MVVM architectural pattern.
- React, Redux, Material UI, .Net Core, C#, SQL, Docker, Kubernetes

Numina   *New York, NY*

SOFTWARE ENGINEER INTERN   *Jan 2020 - Jun 2020*

- Integrated new features into the admin panel using information retrieved from AWS through Apollo queries.
- Developed new metrics, created new visualizations, augmented reports with new data from sensor API, and improved report styling and layout.
- Python, Jupyter Notebooks, Matplotlib, Pandas, Web APIs (GraphQL and REST), HTML, CSS, AWS.

Projects

Lyrics Generator - theCodex

- Created for TheCodex, which is a platform used by 575,000+ students.
- Uses markov chains to generate songs like your favorite music artist's. Covers topics like API requests, web scraping, markov chains, and Flask.

Skills

Languages   Python, JavaScript, C++, C#, Vim, HTML, CSS, SQL,
Frameworks   React, Redux, Node.js, Flask, .Net Core, SQL Server, MongoDB, Docker, GraphQL, Express, Git, Linux, GDB

Honors/Awards

Best Diversity Hack by FCA, out of 576 hackers at Shellhacks   *Oct 2020*
Best Hack for Social Good - State Farm, out of 262 hackers at Sunhacks   *Oct 2020*
Best Domain Name by Domain.com, out of 203 hackers at HackOrTreat   *Oct 2020*
Best Use of Google Cloud, out of 286 hackers at SBUHacks, 576 at Shellhacks, 405 at HackTX 2020   *Sep 2020*
Second Overall, out of 187 hackers at New Friends, New Hacks   *Sep 2020*
Hack This Fall Top - 15 Wolfram Prize, out of 405 hackers at Hack This Fall   *Nov 2020*
Open Educational Category Winner, out of 54 hackers at Hack The Innovation   *Sep 2020*
First Time Hackers Winner, out of 211 hackers and Queens College HackAttack   *Oct 2018*