William Qin

wxqin.com
wwxqin@gmail.com | (240) 463-8291

EXPERIENCE

Wayfair Boston, MA
Software Engineer II Nov 2020 – Current
- Authored technical specification and main contributor of event-driven tour planner - used for tour creation for all picking workflows in Wayfair warehouses.
- Developed safety notifications for users picking based on tour metadata and fork information. Integrated physical staging enforcement to reduce fake staging and increase adherence to 96%.
- Implement asynchronous requests and caching of Operational Research Team's pathway tour selection.
- Architect single purpose database to keep track of picks, consuming with aiokafka. Prototyped integration of Google OR Tools for tour creation and integrated FastAPI to expose rest api endpoints.
- Designed and built replenishment autoenrollment tool for breaking down and moving large parcels into and out of bins area for increased efficiency. Setup datadog monitoring, and grafana dashboards.
- Utilized event driven Faust architecture to decouple picking services. Migrated legacy systems over to GCP.
- Created Jenkins Jobs, wrote infohubs e.g. setting up new warehouses, and resolved docker and buildkite issues.

Fannie Mae Reston, VA
Software Engineering Intern Jun 2019 – Aug 2019
- Developed tool to visualize dependencies on DDN using D3.js and built Rest API for it to communicate with a web app dashboard to generate monthly trends and projection reports.

Federal Deposit Insurance Corporation (FDIC) Washington, DC
Modeling & Research Intern May 2017 – Aug 2017
- Extracted and analyzed historical interest rate data from all U.S. bank branches since 2007 for ~50 consumer products. Modeled rate changes and analyzed bank's performance metrics and deposit insurance data.

Millennium Challenge Corporation Washington, DC
Intern Jun 2016 – Aug 2016
- Created the internal website which displayed metrics and all documents (financial reports, congressional notices) associated with agency's foreign aid projects for company-wide quick access and analytics.

PROJECT

BonusAlly.com
Calculates the best credit cards for users based on an in depth breakdown of their spending habits. Taking account of bonuses, annual fees, and other criterias to narrow down options from all the major credit card issuers. Enable users by saving their progress to firebase.

Waitlist Skipper
Notifies you with text messages when a class at UMD has an opened seat (someone drops or more seats are added), allowing you to jump the waitlist in the process.

EDUCATION

UNIVERSITY OF MARYLAND May 2020 | College Park, MD
B.S., Computer Science
B.S., Mathematics and Economics

SKILLS

Languages
Java · Python · SQL · PHP · Kotlin · R · C · MATLAB · HTML/CSS · JavaScript

Relevant Coursework
Database Design · Advanced Data Structures · Artificial Intelligence · Computational Methods · Advanced Algorithms · Advanced Calculus · Econometrics · Functional Programming · Game Theory · Statistical Computing · Discrete Structures · Probability Theory