Dingyun Guo in

Junior Software Engineer

dingyunguo@gmail.com (+1)614-477-5528 Santa Clara, CA

Profile Summary

- Junior Developer and QA Tester, experienced in building and deploying full stack solutions. Well versed in Object-Oriented Programming (OOP), data structures & algorithms, and web technologies.
- Full-stack developer with a strong command of programming languages including Python, Java and JavaScript. Proficient in designing UIs with React, writing server-side code and building APIs, and manipulating SQL & NoSQL databases. Solid understanding of Authentication, Security, and version control.
- Key contributor to the team, available to support and collaborate with others. International profile, fluent in English and Mandarin, thriving in a multicultural & diverse work environment.

Education

The Ohio State University ↗

B.Sc. in Computer & Information Science

Columbus, OH, 2018-2022 **GPA: 3.6/4.0**

- **Coursework**: Operating System I, II, Data Structure, Computer Networking, Principles of Programming Language, Machine Learning, Database System, Basic Microeconomics, Basic Macroeconomics, Computer Architecture.
- Ohio State **Dean's List** from 2019 to 2021

Languages **Mandarin**: Native **English**: Fluent

Technical skills

Languages: Python, Java, JavaScript

Python stack: **Framework**: Django, Flask / Libraries: Numpy, BeautifulSoup / **Testing**: PyTest, unittest

JavaScript stack: **FE Framework**: React / **Libraries**: D3.js / **Back-end**: Node.js, Express.js

Databases: **SQL:** MySQL / **NoSQL:** MongoDB, Redis

Other: Terraform, Docker, Kubernetes, Jenkins, TestRail, PyTest, PyATS

Professional Experience

Aviatrix Systems, Inc   Santa Clara, CA

Member of Technical Staff (Intern: Jan-May, FTE: May-Present)   May. 2022 - Present

- As part of a QA team, participate in the technical effort by developing features for a new automation testing framework, based on object oriented solutions in a multi-cloud environment.
- Implement Docker, PyTest and TestRail in the testing environment, and deliver test beds leveraging Terraform as an IaC tool. Proactively seek performance improvement opportunities with a well defined profiling approach to isolate and clear bottlenecks and improve testing performance.
- Write and maintain clean code, comments and documentation to allow other engineers to rapidly understand key logics, objects and functions.
- Delivered technical presentations to the team on new designs, features and development plans. Maintained a high engagement in meetings, asking calibrated questions to reach alignment and optimize for delivery.
- Shadow Senior Engineers and Testers, remaining helpful while observing their work to learn best practices.

Key Achievements:

- Migrated previous test scripts into the new automation framework, make the test more efficient and save CSP costs for the company
- Automated the previous manual installation process for environment setup of this new automation framework, reducing the installation time from 120 minutes to 10 minutes.

Software Engineer Intern   Aug 2020 - Nov. 2020 & May 2021 - Aug. 2021

- Built the front end console dashboard to present system logs and customer data, using the React js as the console framework and D3.js to build a more enhanced data present experience.
- Worked and collaborated within a pluridisciplinary team including Product teams and UX/UI designers. Gather technical requirements by extracting architectural significance and solution designs leveraging web technologies.
- Wrote automation tests to ensure optimal system performance, availability and reliability. Created an internal tool to automatically process data transfer across multiple cloud providers, including AWS, Azure, and GCP.

Projects Experience

Implementation of MapReduce with Application to Word Count   Sep. 2021 - Nov. 2021

- Implemented bounded/circular buffers with synchronization supporting multiple producers and consumers in multi-threading. We used word counters as walking examples and implemented unit tests.
- Extended the project to support more cases, like back pressure for consumers and memory over usage.
- Worked closely with fellow teammates to build the project, planning and dividing tasks effectively, and maintaining a close communication during implementation to support each other and remove roadblocks.