

AVERY HUANG

Software Engineer

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TECHNICAL SKILLS

Programming: C#, Python, SQL

Frameworks and Libraries: .NET, SQL Server, SpecFlow, xUnit.Net, React, NodeJS

DevOps & Cloud: Docker, Kubernetes, CI/CD, Bamboo, Prometheus, Grafana

Tools: Visual Studios, Git, Bitbucket, Postman, Confluence, Jira, Kibana

WORK EXPERIENCE

Software Engineer II, Bank of America, *New York, NY*

Nov 2021 – Feb 2022

- Contributing to a real-time trading engine in **Java** and improved system health analytics through the instrumentation of **Prometheus** metrics for real-time observability
- Developed **Python** scripts to automate the software release cycle processes, reducing steps by 75%

Software Engineer II, VMWare, *Remote*

Jun 2021 – Nov 2021

- Led the design and product side development for features on VMware's UEM solution using **C#/.Net** and **MSSQL** for data management
- Implemented features to manage the lifecycle of device trust policies for the compliance service, enabling the automatic maintenance of a device's desired state for over 100K enterprise devices
- Refactored APIs to reduce database load and to prevent circuitous data processing for the device compliance engine
- Identified and resolved product gaps via exploratory testing, resulting in a standardized method to store and display globalized event logs in the UI
- Maximized test coverage by developing integration and unit tests using **SpecFlow** and **xUnit.Net**

Software Engineer I, VMWare, *Remote*

Aug 2020 – Jun 2021

- Developed a **REST API** for the certificate management service to automatically revoke internally managed certificates based on device samples and time-based thresholds
- Refactored the monolithic system to assist in its transition to a **microservice-based architecture**
- Reviewed 50+ pull requests across multiple teams to ensure adequate test coverage and prevent future bugs and technical debt

Cloud Research Intern, IBM T.J. Watson Research Center, *Yorktown Heights, NY*

May – Aug 2019

- Streamlined the process of creating canary tests through an interactive, dynamic form developed using **React** and **TypeScript**, reducing the amount of manual steps by 45%
- Innovated using the Prometheus and StatsD to collect custom application level metrics for an advanced traffic engineering engine for cloud native applications on **IBM Cloud**
- Integrated custom application-level metrics with Istio, which enhanced data visualization and analytics for microservices running on **Kubernetes** clusters
- Published the integration techniques on the Medium blogging platform, totaling 500+ readers

EDUCATION

Boston University, College of Engineering, *Boston, MA*

Bachelor of Science in Computer Engineering | **GPA:** 3.80/4.00 | Magna Cum Laude

May 2020