AVERY (YAN YAN) HUANG

Software Engineer
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EDUCATION

Boston University College of Engineering **Boston, MA**
Bachelor of Science in Computer Engineering | Magna Cum Laude | **GPA**: 3.80/4.00 May 2020

Related Course Work
Advanced Algorithms & Data Structures | Operating Systems | Applied Cryptography | Software Engineering

TECHNICAL SKILLS

Operating Systems: Windows | Unix/Linux | iOS
Frameworks\Tools: Kubernetes | Docker | IBM Cloud | React | Node.js | Figma | Adobe Photoshop
Programming: C/C++ | Python | Typescript/JavaScript | C# | HTML | CSS

RELEVANT EXPERIENCE

Member of Technical Staff, *VMware* Aug 2020 – Present
- Contributing to UEM platform (Workspace ONE) as a Full-Stack Software Engineer

Cloud Research Intern, *IBM Thomas J. Watson Research Center* May – Aug 2019
- Contributed to an open-source project that performs statistical comparisons of distributed traces and time-series analytics for cloud infrastructures
- Extended the microservice analytics software by enabling the usage and visualization of systems utilization metrics in Prometheus and Grafana
- Created template web applications in Flask using Python to integrate custom application-level metric collection with Kubernetes and Istio (service mesh for distributed services)

Undergraduate Teaching Assistant, *BU Electrical and Computer Engineering Department* Sept 2018 – May 2019
- Provided individualized guidance to students enrolled in Introduction to Software Engineering and Applied Algorithms & Data Structures courses in C++
- Developed Python scripts to automate the grading process of 120+ programming assignments

Systems Research Assistant, *Performance and Energy Aware Computing Laboratory* May – Aug 2018
- Collaborated with Sandia National Laboratories in the development of a service to automatically detect and diagnose performance abnormalities in high performing computing (HPC) systems
- Analyzed and pipelined 10,000+ sets of HPC performance metrics using the pandas and the scikit-learn Python libraries
- Designed a 64-bit model in Python to organize results from the machine learning analytics process for more accessible analysis
- Designed intricate diagrams to illustrate software infrastructure and data flow using Figma

PROJECTS

Cloud Microservice Experimentation Platform Sept 2019 – May 2020
Undergraduate Researcher
- Collaborate with IBM Research on the development of a software for optimizing traffic division in cloud-native application experiments
- Improve user inclusivity in IBM's analytics software by extending the user interface using Typescript, React, and NodeJS

Django Web Application Sept 2019
Full Stack Developer
- Collaborated in a team of two – developed a Django web application that enables Facebook SSO and displays user specific location-based weather information and randomized temperature and humidity plots