Huaxin Li

Work Experience

Microsoft - Azure
Software Engineer
Jun 2021 - Now

- Work in Azure Specialized team that provides private clouds to strategic customers that bring in hundreds of millions in revenues.
- Contribute to the design of large-scale distributed software services and solutions.
- Drive projects through to delivery with high quality code, collaborating with cross-functional teams regarding product and design.
- Mentor engineers and promote knowledge sharing and contribute to documentation for new engineers.

- **Project - SDDC (data center) Pre-provisioning**: Enhanced control plane logic to pre-deploy hybrid resources (gateway, virtual WAN, firewall) of data center before customer's request using F# language, which greatly enhances SLO and reduces 31% SDDC creation failures, 59% SDDC hybrid resources failures and 11%SDDC provisioning time.
- **Project - Gateway Manager Onboarding**: Automated the onboarding process of new router devices and port pairs to gateway manager with validation check using C# language. Reducing onboarding time from 5 weeks (any mistake in xml files takes another 5 weeks to fix) to 5 days SLA.
- **Project - Neptune Service:** Added communication mechanism between control plane and network service routers so that Azure Support Center users can retrieve router components information for debugging and monitoring, eliminating the hassles of getting approval, fetching password and logging into the router, etc.
- **Project - ExpressRoute circuits SPOF**: Implemented a feature that allows customers to conduct CRUD operations on ExpressRoute circuit and its artifacts when one of the devices is offline (circuits are deployed on pairs of devices). The faulted device can syncs back with the healthy device when it comes online. This improves Azure SLAs and helps the service to meet expected 99.9% SLO for control plane operations.

Hughes Network Systems
Software Developer
Dec 2018 - May 2021

- Worked on the element management system that monitors and configures communication between satellite and user terminal. Designed front-end web interface using HTML, CSS, JavaScript, jQuery. Made back-end enhancements through Grails web framework using Java. Managed MySQL database and wrote Linux bash scripts.
- Worked on the Integrated Satellite Module for user terminal communication. Implemented a statistics collector that assembles JSON messages from separate message queues using C++. Designed a communication interface for Qualcomm 4G LTE modem including setting up data sessions and input channels, constructing commands for modem interactions.
- Wrote a new test software using Python GUI libraries for motherboard testing and reduced the runtime by 5/6. Implemented booting process test, memory read/write test and wrote an Internet interface to submit test reports to server. Wrote structured documents and operational manuals for the software.

Gilbarco Veeder-Root
Software Engineer Intern
Jun 2018 - Aug 2018

- Worked in automation team and wrote test cases for Passport Point-of-Sale system using Python OCR library.
- Automated procedures like order items, checkout, returned purchase, lottery games, etc.
- Migrated scripts written in AutoIT language to Python.

Visionese
Technology Specialist Intern
May 2017 - Aug 2017

- Managed MySQL database and enhanced user experience for interactive 360° virtual tours on website.
- Added tour comment feature and social network features and increased website visits by about 30%.

Self Projects

E-commerce Online platform
May 2020 - Jun 2020

- Built a RESTful web app to sell clothes using HTML, CSS, JavaScript and Bootstrap for front-end design, and Node.js with MySQL database as back-end framework.
- Supports user registration and OAuth-based third party login with encryption and user profile management.
- Supports shopping cart management, sale items and orders CRUD operations.
- Users can rank stars and post comment for products. Supports Paypal and Visa checkout.

Proximity Service App
Oct 2018 - Dec 2018

- Developed a yelp-like app for local businesses discovery using Swift UI. It allows people to discover nearby restaurants, hotels, health service and entertainment places, etc.
- Wrote backend in Python and pulls data through yelp api. It comes with desktop web browser version implemented in Angular.js.
- Comes with features like results ranking, keyword auto complete, auto ip address detection, distance and categories filtering, map navigation, bookmark favorite places, comment service, reservations service, etc.

Personal Info

Visa
Lawful Permanent Resident

Major
Computer Science

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Education

The Pennsylvania State University
Cumulative GPA: 3.81/4.00   2015 - 2017
B.S. in Computer Science: Graduated

University of Southern California
Cumulative GPA: 3.85/4.00   2021 - 2024
M.S. in Computer Science: In Progress

Skills

Programming Languages:
C, C++, C#, F#, Java, Python, Swift, PHP

Web Development:
HTML, CSS, JavaScript, BootStrip, jQuery, Angular.js, Vue.js, React.js, Node.js, Spring Boot, MySQL, MongoDB

Machine Learning:
Computer vision, Natural language processing, Keras tensorflow, PyTorch, Numpy, Matlab

Others:
Docker, Kubernetes
Cloud platforms (AWS, Azure, GCP)
GitHub, Linux

Languages

Mandarin, Cantonese, English, Japanese