Benjamin Yu

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Experience

Software Developer   **February 2022 – Present**
Microsoft – Azure DNS
- Designed and implemented new Azure DNS features and deploy changes to virtual machines in 5000 servers across 80 global regions using Azure Cloud Service, C#, PowerShell, VMSS, .NET
- Automated validation and deployment of production builds using: Functional Testing, Stress testing, Key Vault, Certificates, A/B Testing, Azure Resource Manager
- Mitigate and resolve external customer concerns with Azure DNS SLA

Software Development Engineer   **June 2019 – February 2022**
Amazon – Pharmacy
- Designed and delivered automated accounting service as a distributed system with continuous integration using AWS, Java, EC2, Cloudformation, VPC, AB Testing
- Designed Pharmacy's Tax Accounting Automation Project and coordinated with teams in Tax, Accounting and Product to enable Pharmacy to serve customers in all 50 US States
- Designed and implemented Service Infrastructure Monitoring package adopted in 16 services, reducing development time by 32 developer weeks using AWS Cloudformation
- Delivered new discount card payment program, delivering features using Java full stack development in 4 different services and coordinating integrations with 3 external teams
- Regularly performed 24/7 oncall shifts with monitoring of services, resolving customer tickets and mitigation of high severity events
- Mentored and designed projects for three interns, who all received returning full time offers

High Performance Computing Engineer   **May 2018 – May 2019**
Institution for Advanced Computational Science
- Implemented unit test framework to automate software environment maintenance of over 100 open source and enterprise applications in a 250 node cluster with a parallel file system on Nvidia, Cray and Intel Architectures using Bash scripts
- Refactored code to run in parallel using multiple nodes and cores

Education

Stony Brook University
Bachelors of Science in Computer Science (May 2019)
- Coursework: Software Engineering, Cloud Computing, Machine Learning, Databases, Programming Languages, Networking, System Fundamentals, Algorithms/Data Structures
- Teaching Assistant (Jan–May 2018): Taught recitation classes for 80 students

Technical Skills

Languages: Bash, JavaScript, Java, C, Python, HTML, CSS, SQL, C#, Powershell
Technologies: Windows, Linux, CentOS, MacOS, VMware Workstation, MySQL, Git, Jira, Tensorflow, React.js, Material-UI, Spring, Node.js, Step Functions, SNS, Lambda, Code Deploy, Docker, Kubernetes