

Joshua Ku

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WORK EXPERIENCE

IBM

ADVISORY SOFTWARE ENGINEER

Durham, NC | July 2017 - July 2021

- Hosted and maintained GitHub and TravisCI reliably at scale
- Developed automation to manage infrastructure as code using Terraform
- Developed Slack bots in python to help automate tasks
- Designed and lead the strategy for the migration of data from IBM GitHub Enterprise to Kyndryl GitHub Enterprise

IBM

SOFTWARE ENGINEER

Durham, NC | September 2015 - July 2017

- Hosted applications such as Jenkins, Artifactory and UrbanCode as cloud services
- Designed and implemented a highly available network architecture to support cloud based tooling
- Developed automation to maintain network configurations on various routers
- Organized developer workshops to teach programmers how to develop code with the DevOps mentality

GENERAL MOTORS COMPANY

MOBILE APPLICATIONS / SHAREPOINT INTERN

Lake Orion, MI | May 2014 - August 2014

- Collaborated with plant management to develop a proof of concept android application written in Java to help audit tools more efficiently
- Developed MySQL queries to create views for management to read tool data and forecast trends
- Collaborated with various teams across the plant to identify current document control processes and how they can be improved
- Redesigned the internal SharePoint site to be more user friendly and intuitive for all plant personnel

ACTIVITIES

IBM JumpStart Instructor

January 2018 - July 2021

- Facilitated coding workshops to teach new hires about agile development and design thinking
- Taught workshops at various IBM developer sites in USA and Canada

IBM Developer Buddy

January 2019 - July 2021

- Mentored developers who recently onboarded to IBM
- Organized local social events to introduce new hires to the local IBM community

SKILLS

Languages: Python, Shell, Go, Ruby, YAML, SQL, C/C++, C#, Java

Operating Systems: Ubuntu, MacOS, CentOS/RHEL, Debian, Alpine, Windows

Technologies: AWS, GCP, IBM Cloud, Kubernetes, LinuxKit, Docker, Helm, Kustomize, Skaffold, NGINX, Apache, GitHub, TravisCI, JenkinsCI, ZenHub, Jira, Slack, Artifactory, Ansible, Terraform, UrbanCode Deploy, MongoDB, MySQL, PostgreSQL, Redis, VMware, VirtualBox, \LaTeX

EDUCATION

The Pennsylvania State University

University Park, PA | 2010 - 2015

BS COMPUTER SCIENCE | BS INFORMATION SCIENCE AND TECHNOLOGY