

Joshua Ku

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WORK EXPERIENCE

GITHUB

SENIOR SECURITY SOLUTIONS ARCHITECT

Vancouver, Canada | July 2022 - Present

- Facilitated workshops and webinars to educate customers on secure software development practices
- Architected solutions to help large global enterprise customers adopt GitHub Advanced Security
- Mentored DevOps teams on best practices for hosting large installations of GitHub Enterprise Server
- Coordinated with Engineering teams to provide feedback from customers to improve product features

IBM

ADVISORY SOFTWARE ENGINEER

Durham, NC | July 2017 - July 2021

- Collaborated with GitHub and TravisCI enterprise support teams to investigate software issues
- Hosted and maintained a highly available resilient environment at scale
- Developed automation to manage all infrastructure components
- Performed large scale data migration between cloud providers
- Conducted a pilot offering of Semmle
- Designed and lead the strategy for the migration of data from IBM GitHub Enterprise to Kyndryl GitHub Enterprise
- Assisted the ZenHub and Jira SRE squads in debugging performance related issues

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

ACTIVITIES

GitHub Skills Based Volunteering

January 2023 - Present

- Guided non-profit organizations on adopting and contributing to open source software
- Facilitated workshops and webinars to educate non-profits on the benefits of open source software
- Modernized software development practices to help improve developer productivity

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

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, ElasticSearch, Logstash, Kibana, LogEntries, NewRelic, Librato, UrbanCode Deploy, Vyatta, Citrix Netscaler, MongoDB, MySQL, PostgreSQL, Redis, VMware, VirtualBox, Wireshark, \LaTeX

EDUCATION

The Pennsylvania State University

University Park, PA | 2010 - 2015

BS COMPUTER SCIENCE | BS INFORMATION SCIENCE AND TECHNOLOGY