Ryan **Shah**

SOFTWARE ENGINEER · COMPUTER SCIENCE AND MATHEMATICS MAJOR WITH PHYSICS MINOR · UNIVERSITY OF KENTUCKY

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Skills & Interests

DevOps	AWS, Azure, Docker, Kubernetes, Jenkins, MySQL, PostgreSQL
Web	Angular, HTML5, CSS, REST API, PHP, Node.js, SpringBoot
Programming	C/C++, Python, JAVA, C#, Groovy, Ruby
Non-Technical	Hiking, D&D, Travel

Experience

Lexmark International, Inc.   *Lexington, KY*

SOFTWARE ENGINEER - ACCOUNT AND IDENTITY MANAGEMENT   *May. 2020 - Present*

- Responsible for maintaining a suite of applications that facilite account management, authentication, and identity federation for our cloud services.
- Facilitate the transition to Azure B2C identity management service from our in-house Ruby on Rails identity provider.
- Developed several customer facing Angular UI's and C# services and their deployment to our Kubernetes environment.
- Helped transition several services from AWS EKS to Azure AKS.

TECHNICAL ROTATION PROGRAM   *Jul. 2018 - May. 2020*

- During this program, I spent 8 months on 3 different teams in the organization.
- On the Core Team, I helped to design and build fully-automated CI/CD Jenkins pipelines to support the transition of our suite of dockerized micro-services to Kubernetes from AWS ECS as well as maintain several Java libraries and SpringBoot services.
- On the Firmware Security Team, I worked to handle incoming critical CVE's in our firmware, as well as develop a service on our devices that enables automatic updating of critical SSL certificates for authentication with Lexmark and 3rd-party servers.
- On the Cloud Solutions Team, I created a feature using Azure Device Streams that would allow remote access to IoT devices in our cloud system.

PPQA TOOLS TEAM INTERN   *Aug. 2016 - Jun. 2018*

- Created a suite of Python scripts that collect usage data from multiple data sources to detect supply failures and end of life.
- Built a C# desktop application, and companion command line tool, to analyze binary packet data.
- Used machine learning to train a model that could identify print errors in QA tests.
- Developed a logging pipeline utilizing HyperLedger Fabric blockchain and ActiveMq.

Extracurricular Activity

Lexmark International, Inc. Hackathon   *Lexington, KY*

LEAD ORGANIZER   *2019 - Present*

- Organized a company wide hackathon that took place over the course of a week.
- Involved working with multiple levels of management for approval and funding.
- Held several technical events throughout the week, including sponsored talks and creative events.
- Week long event cumulated in a final showcase for all projects and a presentation by the winners.
- Awarded the Manager Appreciation Award as recognition for the effort put into organizing the event.

Hackathons   *Kentucky*

PARTICIPANT   *2016 - 2018*

- Participated in various national level hackathon events during my college career including CatHacks and DerbyHacks.
- Award winning projects include an automated smart home using a Raspberry Pi, a personal nurse skill for Amazon Alexa, and a semantic analysis engine.

Honors & Awards

2012	**Eagle Scout**, Boy Scouts of America	*Lexington, KY*
2016	**2nd Place**, CatHacks II Hackathon	*Lexington, KY*
2017	**Most Potential Value**, DerbyHacks2 Hackathon	*Louisville, KY*
2018	**1st Place**, Derbyhacks3 Hackathon	*Louisville, KY*
2018	**Best Health Hack**, DerbyHacks3 Hackathon	*Louisville, KY*
2018	**Most Innovative Hack**, CatHacks IV Hackathon	*Lexington, KY*