

# Ryan Shah

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## Education

### University of Kentucky

Lexington, Kentucky

B.S. IN COMPUTER SCIENCE AND MATHEMATICS WITH A PHYSICS MINOR

Aug. 2014 - May. 2018

- Awarded the Singletary Scholarship, the University's highest scholarship.
- Graduated Suma Cum Laude from the Honors College.

## 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 facilitate 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 culminated 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 a Raspberry Pi powered automated smart home, a personal nurse Alexa skill, 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