# Ryan **Shah**

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## Education

**University of Kentucky**                                                                                   *Lexington, KY*
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 Lewis 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 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.
- Develop several customer facing Angular UI's and C# services and their deployment to our Kubernetes environment.
- Help 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 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 | *Louisville, 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* |