

# Ryan Bohinski

SOFTWARE ENGINEER

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## Experience

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### Intel Corporation

King of Prussia, PA

SOFTWARE ENGINEER

Sep. 2015 - Oct. 2017

- Worked with the Data Center Group on creating the next generation of fabric computing with Omni-Path
- Used Java, C/C++, and Python to develop applications and tools
- Worked on universal Omni-Path flashing and product management tool written in Java and C++
  - Tracked programmed boards with a PostgreSQL database of programmed devices
- Created a tool written in Python that tests all cables in an Omni-Path fabric to diagnose for signal degradation
  - Multiprocess design allows for quick tests on a fabric containing over 8000 nodes
  - Records data over time and attempts to predict if a cable link quality may degrade in the future, allowing administrators to proactively avoid link speed degradation
- Worked with third parties to create specialized tools for their fabric cluster
- Verified and maintained open source compliance for Omni-Path software releases
- Automated report generation for Omni-Path software releases

### State of New Jersey Judiciary

Trenton, NJ

INFORMATION SYSTEMS TECHNICIAN

May. 2012 - Sep. 2014

- Created a system-monitoring tool that alerts administrators to the health of the application and potential issues with deployed services
- Developed a scheduling application for court buildings so staff can organize meetings and reserve rooms and equipment
- Created a Java framework that is actively used in multiple state applications which manages queries against LDAP services
- Worked independently to create a replacement for the previous statistics gathering program that was slow and occasionally inaccurate
- Implemented solutions using Java, JavaServer Faces, JavaScript, and HTML
- Responsible to teach essential skills to new employees

## Education

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### The College of New Jersey

Ewing, NJ

B.S. IN COMPUTER SCIENCE

May. 2015

## Certifications

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### AWS Certified DevOps Engineer - Professional

AMAZON WEB SERVICES

Jun. 2018

### AWS Certified Developer - Associate

AMAZON WEB SERVICES

Jun. 2018

## Skills

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**Development** Java, Python, C/C++, JavaScript, HTML, CSS, SASS, Perl, Amazon Web Services

**Tools** Git, Gradle, Maven, Ant, Gulp.js, GNU Make, SQLite, PostgreSQL, UML, Arduino, Linux, Windows, macOS

**Other** Networking, Encryption, Artificial Intelligence, Algorithms, Software Engineering

## Volunteering

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### FIRST Robotics: Storm Robotics Team 2729

Medford, NJ

SOFTWARE MENTOR

Jun. 2015 - PRESENT

- Mentoring students within the programming department to assist with the creation of a robot designed to complete the specified task within six weeks
- Topics:
  - Computer Vision to identify game pieces and robot guidance
  - Motion Profiling for robot guidance during autonomous control
  - Android application development
  - Proportional-Integral-Derivative (PID) controlled subsystems