UNIVERSITY OF
Cincinnati.

College of Engineering
and Applied Science

# Zackary Sprague

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## EDUCATION

**Master of Engineering: Computer Science - Cyber Security**          **Dec 2021**
*University of Cincinnati, Cincinnati, Ohio*

**Bachelor of Science: Computer Science, Minor: Mathematics**          **May 2020**
*Northern Kentucky University, Highland Heights, Kentucky*
- Member of National Honor Society of Leadership and Success
- Dean's List Senior Year

## TECHNICAL SKILLS

- Python
- Java
- HTML / CSS
- JavaScript
- PHP
- SQL
- Visual Studio / JetBrains
- Microsoft Office Suite
- macOS / Linux
- Git
- IBM Cognos
- RESTful API

## WORK HISTORY

**Software Integration Intern / Systems Analyst**          **Current**
*Heritage Bank Operations Center, Burlington, Kentucky*
- Using Business Analytics and IBM Cognos to create reports regarding financial business needs.
- Incorporating APIs to simplify financial projects via Python.
- Develop internal web applications for the deposit and loan operations team to manage cashier checks using Python, Flask, and JavaScript.
- Modify and update Microsoft SQL Server and MySQL databases.
- Maintain, configure, and upgrade user PCs, printers, servers, switches, and cameras.
- Creating batch scripts to automate user data and logging.
- Provide technical assistance and support to employees about software and hardware concerns.

**Computer / Gaming Technician**          **Sept 2020**
*Blair Technology Group, Covington, Kentucky*
- Repairing motherboards and/or other hardware components.
- Full building process of a gaming computer.
- Maintaining hardware and software via BIOS.

**Manufacturing IT Intern**          **May 2020**
*Robert Bosch Automotive Steering, Florence, Kentucky*
- Manage and control server databases with Siemens programmable logic controllers (PLC) communicating to each manufacturing line.
- Querying databases using SQL to retrieve information from the production lines.
- Resolve PLC issues that may occur during production.
- Replace or repair damaged PCs or any other component that may have failed.
- Use of networking to gather IP addresses for all devices on individual subnets via Profinet.
- Gathering data from the production lines and incorporating Poka to allow continuous manufacturing performance.
- Authorizing employee requests to access monitoring of line production via OIS.NET Portal.
- Team projects to discuss, analyze, and incorporate possible ideas of solutions to make manufacturing perform effectively.

## PROJECTS

**Portfolio Website (HTML / CSS / JavaScript)**          **Apr 2020**
- Created to display more information and experiences about myself.

**MLB Visualization (Python / JavaScript / Flask)**          **Apr 2020**
- Created to visualize MLB standings from 1869 to current year using Chart.js.

**Alteration of John Conway's Game of Life (Java)**          **Jan 2020**
- Implemented a GUI (.jar) interface to show how the game is played with different controls and preloads.

**Cryptography Autokey Cipher (HTML / CSS / JavaScript)**          **Nov 2019**
- Allows you to encipher and decipher any text with a given key.