

## Work Experience

### **Qualtrics (SAP), Software Development Engineer** \_\_\_\_\_ **2018 - Present**

- Implemented a precalculation data enrichment solution and visualization used by thousands of employees across several hundred companies.
- Developed XM products enabling BMW dealerships to address customer concerns.
- Managed relationship with Marriott Corporate developing data-mutation features.
- Instituted rigorous design-review process and best practices on a newly formed team.

### **Amazon, Software Development Engineer** \_\_\_\_\_ **2016 - 2018**

- Retrofitted a large payload storage system in Amazon's high-throughput distributed data store optimized for small payload storage. This improved availability and latency metrics for critical upstream services like catalog, cart, and checkout.
- Created tools and metrics used for up to 80% of operations weekly.

### **Nvidia, Tegra Software Intern** \_\_\_\_\_ **2015**

- Administered a continuous integration server and implemented load-balancing, version control and install/update automation.
- Created a data-visualization tool to aggregate and display device test metrics.

### **Qualcomm, Software Engineering Intern** \_\_\_\_\_ **2014**

- Developed tools for tracking, scheduling and testing software builds with live notifications & intelligent lookups. See Awards.

### **Office of Indiana State Chemist, Applications Engineer** \_\_\_\_\_ **2012 - 2014**

- Developed web applications with cache-and-sync technologies for use on the field, in the lab and at the office by officials of state agricultural administration.

## Personal Projects

### **Flossfinder**

www.flossfinder.com is a tool for embroiderers and cross-stitchers that can extract a configurable number of colors from any image and match them with the closest thread color-codes from the most popular thread manufacturer, DMC.

### **Phony Stark**

Uses smartphone orientation (accelerometer via HTML5 DeviceOrientation) to manipulate 3D objects on-screen. Uses Node.js on Amazon AWS EC2, Web-sockets (socket.io), WebGL (three.js).

### **Medusa**

Visualizer for Java projects that shows class inheritances and references, and zooms into class-internals like members and methods. Written in Java, uses AWT and Swing API, JaPa parser and AST analyzer.

## Education

Purdue University

West Lafayette, IN

Major: Computer Science

Minor: Sociology

## Awards

**Qualcomm QualStar Hall of Fame Award** 2014

**International Informatics Olympiad** Ranked 1st in state, 28th internationally

**Unified Cyber Olympiad** Ranked 55th nationally

## Community

**Free Knowledge Project, Founder** - A teaching community rooted in the belief of the freedom of knowledge.

### **University Place Tech**

**Support** - Helping the elderly at a retirement home with technology adaptation issues.

### **ΦΣΠ Leadership** - A

charity and community service-oriented fraternity.