



EXPERIENCE

Full Stack Developer

KM Development, 2015 - Present

- Developed HIPPA compliant web/mobile applications
- UI/UX design and full stack development
- Managed multi-disciplinary team for UI/UX design and cross-platform development
- Awarded \$20,000 in prototype development grants
- Awarded provisional patent for HTTP injection system

Data Acquisition and Analytics Internship

Commonwealth of Pennsylvania, 2016 - 2017

- Tasked with creating auditing tool to verify department websites complied with Governor Wolf's Open Data policy
- Developed web application to scrape Commonwealth websites for user specified file types
- Responsible for drafting project proposals and budgets

Software Engineering Internship

KioWare 2015 - 2016

- Developed point of sales system using .NET / MySQL
- Integrated card readers, scanners, money dispensers and other hardware with kiosk software using Java and C#
- Developed settings importer to convert XML configuration files to JSON for new version of KioWare

Software Engineering Internship

Johnson Controls 2015 - 2016

- Created python scripts to automate QA process
- Reduced QA process by 250+ hours for industrial chiller

SKILLS

Languages

Java, C, C++, C#, Python, Javascript, HTML, CSS, Verilog

Frameworks

.NET, Node JS, Express, React Native, jQuery

Cloud Platforms

Amazon Web Services, Azure, Google Cloud, Heroku

Prototyping

Eagle, Adobe XD, SolidWorks

EDUCATION

Bachelor of Science in Computer Engineering

York College of Pennsylvania - May 2017

PROJECTS

Navigator

Laboratory Management Web App for MRG Labs

- Automates MRG Labs' grease analysis process
- Ability for lab techs to manage test results
- Real time sample monitoring for customers
- Integrates with lab equipment for automatic test result uploads through RESTful API
- Used to manage industrial equipment by plant managers at several Fortune 500 companies including:

 **BOEING**  **HONDA**  Volkswagen  **HERSHEY'S**  **MERCK**

Shuttle Tracking System

Embedded System

- Developed GPS tracking device to monitor location of York College's shuttles
- Uses WiFi probe requests to estimate number of riders on shuttle
- Created web application to display shuttles in real time using Google Maps API
- Posts data to web application over 3G

Goode Elementary Greenhouse

Automated Greenhouse Interface

- Developed web application to control and monitor greenhouse
- Developed RESTful API for greenhouse devices to post sensor data and receive automation commands
- Integrated Twilio for real time text alerts

Y-Fi

Free public WiFi for York City, PA

- Awarded \$6000 grant to build WiFi network
- Created a mesh network using internet connections from multiple businesses
- Performed network administrator duties for 250+ daily users

YCP Hacks 2016

Organized York College's First Hackathon

- Fundraised \$25,000 from corporate sponsors
- Designed website (2016.ycphacks.io)
- Responsible for promotions, venue, food, volunteers, hardware and mentors