David McHugh

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PROFESSIONAL EXPERIENCE

DevSecOps Engineering Intern   May 2021 - Present
Becton Dickinson| Sparks, MD

Maintain and optimize medical device manufacturing pipelines while adhering to FDA regulations. Pipelines set in place ensure best coding practices are being upheld along with code quality and security. Work closely with teams to assess their DevSecOps needs and plan the best course of action for each group.
- Developing and maintaining developer-facing features and automated tools to ensure quality and usability
- Create Azure DevOps extensions to assist teams with daily task management systems
- Integrate REST APIs using JavaScript into the current development environment to assist teams in their day-to-day
- Collaborate with the team to set up an Agile schedule for the next Sprint that best fits the team dynamic

Application Template Intern   December 2019 - May 2021
Dataforma | York, PA

Skillfully created and designed application templates to clients' specifications. Work with our internal data management systems to streamline the export process for customers. Created over $10,000 worth of templates and saved time with client onboarding.
- Worked with SQL and Velocity to create application templates to cater to the needs of specific clients
- Held meetings with management and clients to discuss the needs of the customer and set deadlines on projects
- Migrated new customers into our existing database by creating application tables to allow for a quick and straightforward transition into the Dataforma ecosystem

Computer Science Tutor   September 2020 - Present
York College of Pennsylvania | York, PA
Interfaced in-person and virtually with students to advance their computer science experience to achieve their personal goals within the course and afterward

IT Help Desk   July 2019 - December 2019
York College of Pennsylvania | York, PA
Work interdepartmentally and with students to resolve any technical issues that arose

Customer Service Representative   March 2016 - Present
3B Ice Cream | Harrisburg, PA
Attend to customers, prepare ice cream, manage the register, restock, train new hires, resolve customer complaints

Project Experience

Radio Telescope Team Lead - Senior Design   January 2021 - Present
Co-leading a 9 person multidisciplinary senior-level design project; combining Software Development and Engineering to produce a 15ft, 1-ton radio, auto locating, auto-tracking, remote-controlled radio telescope for the York County Astronomical Society. Working alongside 4 sub-teams and clients actively involved to Agilely develop the telescope ready for summer 2022 deployment.
- Coordinated with the control room team using C# and the mobile team developing in react-native.
- Rebuilding the mobile app from scratch due to the past version being unmaintainable due to depreciation
- Set up a Sprint development schedule for the team and prepare status updates and formal milestone presentations for professors and clients
- Interface with embedded hardware systems on the control room side to execute maneuvers with the telescope
- Developed a custom TCP protocol for remote control and monitoring the telescope from the mobile application
- Shared overall leadership responsibilities with the control room team lead
- Developing and executing end to end systems-level integration tests
- Coordinated with the hardware development team on specifications, interfaces, and testing of the telescope
- Using Github for version control, issue tracking, and milestones

Software Design Class   Spring 2020

Developed in a 4-person team (both in-person and remotely) on a semester-long project to design and develop a web application and backend SQL database to graphically display weather data.
- Collect weather data from public APIs and store data within a custom SQL database
- Development involved ideation, textual analysis, UML documents, and DB schemas, working in an agile Sprint style development.
- Our team used object-oriented design and programming, Git version control, Eclipse IDE, Java, JavaScript, SQL

EDUCATION

York College of Pennsylvania   Anticipated December 2022

Bachelor of Science in Computer Science | Minor in Mathematics
- Dean's list - Spring 2021

SKILLS

Java | C/C++/C# | SQL | JavaScript | Swift | HTML | CSS | Visual Basic | REST API | React-Native | Git | Azure DevOps | JetBrians | Visual Studio | Visual Code | XCode | Eclipse | Microsoft Office Suite | macOS App Suite | OS X | Windows | Agile frameworks | Scrum Planning & Retrospectives | Teamwork | Interpersonal Communication | Leadership

LEADERSHIP & EXTRACURRICULAR

Hackathon Team Lead   Sept. 2019 - Present

YCP Hacks | York, PA

Team lead and coordinator of York College's yearly hackathon attracting ~150 students per year
- Facilitated over $10,000 in donation from local businesses and larger corporations such as Google Cloud, 1Password, and BD
- Coordinated with our business liaison and industry partners to divide funds for YCP Hacks
- Plan a fun and engaging event for participants along with our sponsors and alumni
- Manage the entire student-run organization to produce an event sparking creativity and innovation in all attendees

Community Service   2005 - 2019

Harrisburg, PA

Holiday food collections and toy drives for deployed Pennsylvania National Guard families, the homeless, and others in need.

US Army General's Challenge Coin Recipient

Harrisburg, PA

Received Major General Jessica Wright's Challenge Coin for Community Service to the Pennsylvania National Guard

2nd Degree Blackbelt in TaeKwonDo