M. Cooper Healy

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Experience

2022 – 2021 | **Software Engineer**
C2FO, Leawood KS
- Migrated backend from event-driven architecture to distributed microservices
- Created testing suite for entire suite of microservices, reducing service fragility and downtime
- Created distributed authentication system for both internal and external users
- Worked with staff engineers to design infrastructure for microservices

2021 | **Software Engineer II**
Garmin International, Olathe KS
- Added authentication for integration tests, removing the need to store credentials
- Secured internal endpoints on production services by adding secured connective layer
- Wrote custom application-layer API handling to allow for more complex internal API usage
- Upgraded integration testing to prevent more user-visible cases of mis-deployment

2021 – 2020 | **Software Engineer / DevOps Liason**
Service Management Group, Kansas City MO
- Developed tools to monitor and diagnose data quality issues on a large scale
- Mitigated client-impacting issues with data quality in a timely and permanent manner
- Redesigned messaging architecture for critical and high load infrastructure applications
- Owned and maintained orphaned projects and updated and upgraded them to fit new standards

2020 – 2019 | **Software Engineer**
Cboe Global Markets, Lenexa KS
- Designed scalable software to automate analysis of market data
- Prioritized business logic by representing consumers of analysis in design discussions
- Managed the migration of hundreds of scripts to improved analysis framework
- Promoted TDD for all new software through development of new test suite

2019 – 2018 | **Software Engineering Intern**
Garmin International, Olathe KS
- Owned and maintained .NET tool for configuration of airframes
- Designed testing framework to ensure integrity of new airframe configurations
- Guided two other interns in updating and maintaining said testing framework
- Collaborated directly with users to design new features based on need

Education

2019 | **Bachelor of Science, Computer Science**
Missouri University of Science and Technology, Rolla MO
GPA: 3.5/4.0, Major GPA: **3.9/4.0**

Additional Experience

2018 – 2017 | **Research Assistant — Data Science**
Dr. Gayla Olbricht, Missouri University of Science and Technology
- Looked for statistical connection between certain alleles and presence of alzheimer's disease
- Analyzed neuroimaging datasets to look for relationship between age and SOD2 allele
- Tested for differences in structures and SOD2 status using multivariate analysis of covariance
- Measured five different aspects of white matter structural integrity by analyzing DTI data
- Co-authored a paper describing the project and presented research to a board of peers

Technical Skills

Programming Languages	Python, Julia, C, C++, Go, Fortran, TypeScript, Common Lisp
Software	Git/Github, GNU/Linux, Qiskit, PostgreSQL, Make, OpenCV, Valgrind, GDB