

M. COOPER HEALY

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GITHUB <https://github.com/noonels>

EXPERIENCE

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| 2022 | Software Engineer |
| 2021 | <i>C2FO</i> , Leawood KS <ul style="list-style-type: none">○ 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 |
| | <i>Garmin International</i> , Olathe KS <ul style="list-style-type: none">○ 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 | Software Engineer / DevOps Liason |
| 2020 | <i>Service Management Group</i> , Kansas City MO <ul style="list-style-type: none">○ 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 | Software Engineer |
| 2019 | <i>Cboe Global Markets</i> , Lenexa KS <ul style="list-style-type: none">○ 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 | Software Engineering Intern |
| 2018 | <i>Garmin International</i> , Olathe KS <ul style="list-style-type: none">○ 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

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| 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

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| 2018 | Research Assistant — Data Science |
| 2017 | <i>Dr. Gayla Olbricht</i> , Missouri University of Science and Technology <ul style="list-style-type: none">○ 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, C++, Go, Julia, TypeScript, Common Lisp
Software	Git/Github, GNU/Linux, PostgreSQL, Make, OpenCV, Valgrind, GDB,