

# M. COOPER HEALY

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

## EXPERIENCE

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| 2021         | <b>Software Engineer</b><br><i>C2FO</i> , Leawood KS <ul style="list-style-type: none"><li>◦ Migrated backend from event-driven architecture to distributed microservices</li><li>◦ Created testing suite for entire suite of microservices, reducing service fragility and downtime</li><li>◦ Created distributed authentication system for both internal and external users</li><li>◦ Worked with staff engineers to design infrastructure for microservices</li></ul>  |
| 2021         | <b>Software Engineer II</b><br><i>Garmin International</i> , Olathe KS <ul style="list-style-type: none"><li>◦ Added Authentication for integration tests, removing the need to store credentials</li><li>◦ Secured internal endpoints on production services by adding secured connective layer</li><li>◦ Wrote custom application-layer API handling to allow for more complex internal API usage</li><li>◦ Upgraded integration testing to prevent more user-visible cases of mis-deployment</li></ul>                         |
| 2021<br>2020 | <b>Software Engineer / DevOps Liason</b><br><i>Service Management Group</i> , Kansas City MO <ul style="list-style-type: none"><li>◦ Developed tools to monitor and diagnose data quality issues on a large scale</li><li>◦ Mitigated client-impacting issues with data quality in a timely and permanent manner</li><li>◦ Redesigned messaging architecture for critical and high load infrastructure applications</li><li>◦ Owned and Maintained orphaned projects and updated and upgraded them to fit new standards</li></ul> |
| 2020<br>2019 | <b>Software Engineer</b><br><i>Cboe Global Markets</i> , Lenexa KS <ul style="list-style-type: none"><li>◦ Designed scalable software to automate analysis of market data</li><li>◦ Prioritized business logic by representing consumers of analysis in design discussions</li><li>◦ Managed the migration of hundreds of scripts to improved analysis framework</li><li>◦ Promoted TDD for all new software through development of new test suite</li></ul>  |
| 2019<br>2018 | <b>Software Engineering Intern</b><br><i>Garmin International</i> , Olathe KS <ul style="list-style-type: none"><li>◦ Owned and maintained .NET tool for configuration of airframes</li><li>◦ Designed testing framework to ensure integrity of new airframe configurations</li><li>◦ Guided two other interns in updating and maintaining said testing framework</li><li>◦ Collaborated directly with users to design new features based on need</li></ul>   |

## EDUCATION

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| 2019 | <b>Bachelor of Science, Computer Science</b><br>Missouri University of Science and Technology, Rolla MO<br>GPA: 3.5/4.0, Major GPA: <b>3.9/4.0</b> |
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## ADDITIONAL EXPERIENCE

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| 2018<br>2017 | <b>Research Assistant — Data Science</b><br><i>Dr. Gayla Olbricht</i> , Missouri University of Science and Technology <ul style="list-style-type: none"><li>◦ Looked for statistical connection between certain alleles and presence of alzheimer's disease</li><li>◦ Analyzed neuroimaging datasets to look for relationship between age and SOD2 allele</li><li>◦ Tested for differences in structures and SOD2 status using multivariate analysis of covariance</li><li>◦ Measured five different aspects of white matter structural integrity by analyzing DTI data</li><li>◦ Co-authored a paper describing the project and presented research to a board of peers</li></ul> |
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## TECHNICAL SKILLS

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