

# M. COOPER HEALY

EMAIL [m.cooper.healy@gmail.com](mailto:m.cooper.healy@gmail.com)  
PHONE (217) 204 – 1461  
GITHUB <https://github.com/noonels>

## EXPERIENCE

---

- |      |   |
|------|---|
| 2022 | <b>Software Engineer</b>  |
| 2021 | <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>   |
|      | <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 | <b>Software Engineer / DevOps Liason</b>  |
| 2020 | <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 | <b>Software Engineer</b>  |
| 2019 | <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 | <b>Software Engineering Intern</b>  |
| 2018 | <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

---

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

## ADDITIONAL EXPERIENCE

---

- |      |   |
|------|---|
| 2018 | <b>Research Assistant — Data Science</b>  |
| 2017 | <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> |

## TECHNICAL SKILLS

---

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