

M. COOPER HEALY

EMAIL cooper@healy.ink
PHONE (217) 204 – 1461
GITHUB <https://github.com/healym>

EXPERIENCE

- | | |
|-----------------------|---|
| PRESENT
FEB 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 credentialsSecured internal endpoints on production services by adding secured connective layerWrote custom application-layer API handling to allow for more complex internal API usageUpgraded integration testing to prevent more user-visible cases of mis-deployment |
| FEB 2021
FEB 2020 | Software Engineer
<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 scaleMitigated client-impacting issues with data quality in a timely and permanent mannerRedesigned messaging architecture for critical and high load infrastructure applicationsOwned and Maintained orphaned projects and updated and upgraded them to fit new standards |
| FEB 2020
JULY 2019 | Software Engineer
<i>Cboe Global Markets</i> , Lenexa KS <ul style="list-style-type: none">Designed scalable software to automate analysis of market dataPrioritized business logic by representing consumers of analysis in design discussionsManaged the migration of hundreds of scripts to improved analysis frameworkPromoted TDD for all new software through development of new test suite |
| MAR 2019
JAN 2018 | Software Engineering Intern
<i>Garmin International</i> , Olathe KS <ul style="list-style-type: none">Owned and maintained .NET tool for configuration of airframesDesigned testing framework to ensure integrity of new airframe configurationsGuided two other interns in updating and maintaining said testing frameworkCollaborated directly with users to design new features based on need |

EDUCATION

- | | |
|----------|--|
| MAY 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

- | | |
|----------------------|---|
| MAR 2018
AUG 2017 | Research Assistant — Data Science
<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 diseaseAnalyzed neuroimaging datasets to look for relationship between age and SOD2 alleleTested for differences in structures and SOD2 status using multivariate analysis of covarianceMeasured five different aspects of white matter structural integrity by analyzing DTI dataCo-authored a paper describing the project and presented research to a board of peers |
| JUN 2019
AUG 2016 | Secretary and Electrical Team Lead
<i>Underwater Robotics Team</i> , Missouri University of Science and Technology <ul style="list-style-type: none">Developed critical software for object-recognition and autonomous movementDesigned optical distance measurement software for submersible robotCreated printed circuit boards for system controls and power managementManaged communication for team as a whole between executive officers and members |

TECHNICAL SKILLS

- | | |
|------------------------------|--|
| Programming Languages | C++, Python, C#, Go, Haskell, PostgreSQL, Javascript, Common Lisp |
| Markup Languages | Markdown, L ^A T _E X, HTML, XML |
| Software | Git/Github, GNU/Linux, Make, OpenCV, Valgrind, GDB, Vim, Visual Studio |