

M. COOPER HEALY

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

EXPERIENCE

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| 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 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 |
| 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 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 |
| 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 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 |
| 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 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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| 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 |
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ADDITIONAL EXPERIENCE

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| 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 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 |
| 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 movement◦ Designed optical distance measurement software for submersible robot◦ Created printed circuit boards for system controls and power management◦ Managed communication for team as a whole between executive officers and members |

TECHNICAL SKILLS

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| 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 |