

M. COOPER HEALY

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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	Missouri University of Science and Technology, Rolla MO Bachelor of Science, Computer Science GPA: 3.5/4.0 , Major GPA: 3.9/4.0
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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">Analyzed 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 imaging data
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">Desined critical software for objective-recognition and autonomous movementDesigned optical distance measurement software for submersible robotDesigned 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