

# M. COOPER HEALY

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## EXPERIENCE

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- | **Senior Software Engineer**  
2023 | *Copper Labs*, San Fransisco CA
  - Designed and implemented distributed job system to parallelize computation
  - Worked directly with product manager to adapt to changing requirements based on user feedback
  - Worked with Designers and front-end engineers to adapt to changing usage requirements
  - Developed comprehensive analysis tool for client relationship insights
- 2022 | **Software Engineer**  
2021 | *C2FO*, Leawood KS
  - Migrated backend from event-driven architecture to distributed microservices
  - Created testing suite for entire suite of microservices, reducing service fragility and downtime
  - Created distributed authentication system for both internal and external users
  - Worked with staff engineers to design infrastructure for microservices
- 2021 | **Software Engineer II**  
*Garmin International*, Olathe KS
  - 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
- 2021 | **Software Engineer / DevOps Liason**  
2020 | *Service Management Group*, Kansas City MO
  - 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
- 2020 | **Software Engineer**  
2019 | *Cboe Global Markets*, Lenexa KS
  - 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

## EDUCATION

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- 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

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- 2018 | **Research Assistant — Data Science**  
2017 | *Dr. Gayla Olbricht*, Missouri University of Science and Technology
  - 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

## TECHNICAL SKILLS

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| <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 |