

# MATTHEW HEALY

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

## EDUCATION

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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**

## WORK EXPERIENCE

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PRESENT | **Software Engineer**  
FEB 2020 | *Service Management Group*, Kansas City MO

- Wrote Tools to monitor and diagnose data quality issues on a large scale
- Worked on emergency response team to mitigate client-impacting issues with data quality in a timely and permanent manner
- Rewrote messaging architecture for critical and high load infrastructure applications
- Took ownership of orphaned projects and updated and rewrote them to fit new standards

FEB 2020 | **Software Engineer**  
JULY 2019 | *Choe Global Markets*, Lenexa KS

- Wrote scalable software to automate analysis of market data
- Wrote test suites to facilitate TDD for all new software
- Interacted directly with consumers of analysis to prioritize business logic
- Managed the migration of hundreds of scripts to improved framework

MAR 2019 | **Software Engineering Intern**  
JAN 2018 | *Garmin International*, Olathe KS

- Actively developed and maintained .NET tool for configuration of airframes
- Worked directly with users to diagnose and fix issues
- Wrote reliable tests for both embedded and .NET projects
- Maintained software for GIA64 data concentration unit

DEC 2017 | **Student Worker/Technician**  
MAR 2017 | *ITRSS/Minerfly*, Rolla MO

- Maintained and built several frames for research flights
- Designed real-time computer vision safety system
- Managed and co-developed autonomous flight software for several UAVs

## PROFESSIONAL AFFILIATIONS

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DR. GAYLA OLBRICHT | **Research Assistant - Data Science**

- Analyzed neuroimaging data to look for statistical trends
- Co-authored a paper describing the project
- Presented research to a board of peers

ROBOTICS TEAM | **Secretary and Electrical Team Lead**

- Wrote critical software for object-recognition and autonomous movement
- Designed of optical distance measurement software for submersible robot
- Designed 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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LANGUAGES | C++, Haskell, Python, C#, PostgreSQL, Javascript, Go, Common Lisp

SOFTWARE | Git/Github, GNU/Linux, Make, OpenCV, Valgrind, GDB, Vim, Visual Studio