

MATTHEW HEALY

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

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**

WORK EXPERIENCE

JULY 2019 | **Software Engineer**
PRESENT | *Cboe 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

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

- Actively developed and maintained HIVE tool
- 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

MAR 2017 | **Student Worker/Technician**
DEC 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
- Conducted safety procedures for 50+ flights

PROFESSIONAL AFFILIATIONS

SIGDOTCOM | **Front-end Developer**

- Developed several pages on Missouri S&T ACM website
- Redesigned several existing pages
- Participated in weekly design meetings to integrate with back end

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**(Sub-team Lead)

- Designed boards for system controls and power management
- Contributed to design of optical distance measurement software for submersible robot
- Assisted in designing power distribution circuitry for submersible robot
- Managed communication for team as a whole between executive officers and members

TECHNICAL SKILLS

LANGUAGES | C#, Python, C++, Javascript, Go, Haskell, Common Lisp
SOFTWARE | Git/Github, GNU/Linux, Make, OpenCV, Valgrind, GDB, Vim, Visual Studio