Matthew Healy

Email   matthew@healy.ink
Phone   (217) 204 − 1461
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 – Present

Software Engineer
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 – Mar 2019

Software Engineering Intern
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

Aug 2017 – Dec 2017

Software Developer
Product Innovation and Engineering LLC, St. James MO
- Developed user interface for custom additive manufacturing simulation software
- Led other employees in creating maintainable framework for visualization
- Laid groundwork for privacy access control to visualizations for customers
- Self-managed development schedule to ensure timely delivery despite remote nature of work

Mar 2017 – Dec 2017

Student Worker/Technician
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

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 objective-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

Languages	C#, Python, PostgreSQL, C++, Javascript, Go, Haskell, Common Lisp
Software	Git/Github, GNU/Linux, Make, OpenCV, Valgrind, GDB, Vim, Visual Studio