

Derek Meer, Software Engineer

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SOCIAL PROFILES

GitHub
<https://github.com/rederekt>

PROFILE

Highly motivated and principled technology generalist looking for a software engineering role on a high-impact team in a strong learning environment.

EDUCATION

Aug 2012 – Jun 2016 **Rensselaer Polytechnic Institute, Bachelor of Science, Electrical Engineering and Computer Systems Engineering (3.9 GPA)** Troy, NY

CSE Courses: Database Systems, Data Structures, Algorithms, Inventor's Studio | **EE Courses:** Signals & Systems, Robotics, Microprocessor Systems, Distributed Systems & Sensor Networks | **Clubs:** Open Source Club, Formula Hybrid

EMPLOYMENT HISTORY

Dec 2017 – Aug 2018 **Independent Contractor, Optic Arts** Remote

- Increased test coverage to 95% of overall code base through careful analysis of existing code and spearheading of high code quality standards
- Decreased overall data entry errors by 80% and eliminated 80 hours per week of regular employee work by automating business processes in Salesforce
- Leveraged knowledge of algorithm performance analysis, programmed in Python, Java, and JavaScript, and debugged using the Salesforce Developer Console and Chrome Developer Tools

Jul 2016 – May 2018 **Program Manager / Project Manager, Microsoft** Redmond, WA

- Increased Windows IoT developer site engagement by 25% through a redesign of the landing page to align with newer Microsoft design standards
- Developed a design template for an Industrial Gateway built on Azure IoT Edge and IoT Core
- Leveraged knowledge of Azure IoT, JavaScript, and Docker; programmed in JavaScript with Visual Studio Code; and debugged using Visual Studio Code and the Azure Portal

PROJECTS

Jan 2016 – May 2016 **Wireless Sensor Network for CO2 Removal (Patent 62/330,616)** Troy, NY

- Designed a sensor network for an environmental testing rig in an architectural science lab
- Used the I2C, SPI, and ZigBee protocols to record readings from analog and digital sensors
- Utilized: Git, Python, C, Vim, oscilloscope, multimeter

Mar 2016 – May 2016 **MyIn / Parseli, a speed reading / PDF parsing app** Troy, NY

- Developed a web application using Python and Flask to extract content from a text-based PDF document (e.g. a textbook) and "speed read" it one word or image at a time
- Integrated OpenCV, enabling the program to determine the complexity of encountered images
- Included a simple REST API for users to receive parsed content in JSON
- Utilized: Python, JavaScript, OpenCV, Flask

SKILLS

Python	Experienced	Git	Experienced
Vim	Experienced	C/C++	Skillful
JavaScript	Skillful	HTML/CSS	Skillful