

# Ryan S. Fogle

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## EDUCATION

### UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Bachelor of Science in Agricultural Engineering  
Concentration in Off-Road Machinery  
Dean's List

GPA: 3.83/4.0  
May 2021

### ILLINOIS CENTRAL COLLEGE | EAST PEORIA

Engineering Undergraduate  
Dean's List

GPA: 3.89/4.0  
2015-2018

## EXPERIENCE

### CATERPILLAR

Champaign, IL

#### Data Analytics Intern, Machine IoT

March 2020 - Present

- Revised a REST application programming interface on a Flask framework.
- Implemented Python to parallel process and search the contents of 80,000 files to measure data quality.
- Created a parser with regular expressions to create conditional arguments for analyses.
- Created, updated, and maintained tables in a MySQL database.
- Aided with onboarding and coaching of summer interns.

### CATERPILLAR

Champaign, IL

#### Parallel Co-op Engineer, Remanufacturing

May 2019 – March 2020

- Designed multiple new fuel filter iterations for an injector to service it for a longer lifetime.
- Worked with remanufacturing engineers to devise new salvage processes.
- Developed and implemented Python scripts for data analytics.
- Created new database collection scheme for injector test data saving engineers an hour a day in data entry.

### CATERPILLAR

Mossville, IL

#### Student Trainee, Control Systems

May 2018 – May 2019

- Applied new data management techniques through simplifying an 18,000 rowed database table to a 200 rowed table.
- Developed an in-depth Python algorithm for flash file compilation and compression.
- Implemented both back-end and front-end programming by creating graphical user interfaces.
- Maintained schedules for multiple programming projects.

### ILLINOIS CENTRAL COLLEGE

East Peoria, IL

#### Mathematics/Physics/Computer Science Tutor

August 2017 – December 2018

- Coached students how to take limits, integrals, and derivatives.
- Taught students the importance of object-oriented programming.
- Tutored students in Calculus III, calculus-based Physics, and Java.

## TECHNICAL SKILLS

**Applications:** Inventor, Creo, Git, Matlab, MySQL, and MS Office

**Programming Languages:** Python, SQL, Java, JavaScript, and Visual Basic

**Other Misc. Languages:** HTML, CSS, JSON, and YAML

## HONORS and LEADERSHIP

- Bauling/Pershing Memorial Award Recipient 2019-2020
- Illinois Central College Computer Science Club President and Founder 2018