

# 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

#### Data Analytics Intern

Champaign, IL  
March 2020 - Present

- Revised a REST application programming interface on a Flask framework.
- Used Python to parallel process and search the contents of 80,000 files.
- Created a parser with regular expressions to create conditional arguments for analyses.
- Created, updated, and maintained tables in a MySQL database.
- Served as team leader for summer interns.

### CATERPILLAR

#### Parallel Co-op Engineer, Remanufacturing

Champaign, IL  
May 2019 - Present

- 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

#### Student Trainee, Control Systems

Mossville, IL  
May 2018 – May 2019

- Applied new data management techniques through simplifying a 18,000 rowed database table to 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

#### Mathematics/Physics/Computer Science Tutor

East Peoria, IL  
August 2017 – May 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

- Illinois Central College Computer Science Club President and Founder 2018
- Illinois Central College President's List 2016-2018
- Phi Theta Kappa Honor Society Member 2017-2018