

# Joshua Laesch

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## Education:

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### Bachelors of Science in Computer Science

May 2018

Rose-Hulman Institute of Technology, Terre Haute, IN

Overall GPA: **3.72** / 4.0 (Dean's List)

Related Courses: Deep Learning, Data Structures and Algorithm Analysis

Android, Database Systems, OO Software Development, PLC

## Experience:

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### Tesla

Mar - Aug 2017

- Worked on the Energy Products Software team
- Created a web portal for customers to upload their load and solar data
- Fixed bugs and implemented improvements to existing internal web tool
- Taught myself React.js and Rails to work on internal web tool

### Rockwell Collins

Mar - Aug 2016

- Modified 500 python test scripts to enable automated test events
- Learned how to work with a mentor and a small team
- Captured images of the correct display for each step in the test
- Updated the C# tool used to create the images

### Math Department Grader

Sept 2014 - May 2015

- Retained responsibility for students' academically sensitive information
- Maintained unbiased, honest evaluation of course assignments
- Completed tasks in a timely manner

## Projects:

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### Video Creator - Android Development

Dec 2016 - Feb 2017

- Developed app to combine videos stored on device into one
- Authenticated users using Google auth and Firebase
- Stored video projects per user in Firebase

### Emotion Recognizer - Image Recognition

Dec 2016 - Feb 2017

- Detected a face from image using OpenCV's Haar Cascade Classifier
- Trained a CNN to detect 1 of 7 emotions from the Haar face input
- Used Tensorflow to create and train the CNN

### Website - Personal

June 2017

- Created my website in spare time from scratch: <https://laeschjs.github.io>
- Developed it using one of the frameworks I learned at Tesla: React.js
- Scoured the internet for enhancements (i.e. image zoom and auto scroll)

## Skills:

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- Languages - Java, Python, Ruby, C#
  - Web - HTML, CSS, JavaScript and React.js, PHP
  - Database - SQL and MySQL
  - Version Control - Git and SVN
  - Other - Firebase, JIRA, and Agile development