

# Joseph Studer

linkedin.com/in/josephstuder

jmsxw4@mst.edu

(417) 699-6400

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**Education**      Missouri University of Science and Technology (Missouri S&T)      May 2020  
**Honors B.S. Computer Engineering, Minor: Computer Science**      **GPA: 3.91/4.0**

## Experience

Software Engineering Intern      Boston, MA

**Google Travel**      **May - August 2019**

- Improved debugging workflow efficiency by developing a platform to automate detection of common issues
- Utilized modular design allowing developers to ‘plug and play’ new bug detectors leading to expedited isolation of bugs and issues
- Developed tooling to visualize the process through which trips are clustered together, providing valuable insight during the debugging process
- Established and automated precision-based metrics for the destination inference pipeline enabling developers to quantitatively measure the impact of system improvements

Software Engineering Intern      Mountain View, CA

**Google Pixel Camera**      **May - August 2018**

- Learned and implemented Javascript and CSS best practices to build an intuitive, scalable web based image tuning tool used across multiple imaging teams at Google
- Streamlined architecture of a bit-accurate image signal processor (ISP) in collaboration with a multidisciplinary team of camera and imaging engineers
- Led a partner team in Google Taiwan by bringing them up to speed on internal development tools and planning a project roadmap to enable their success in the development of the image tuning tools

Engineering Practicum Intern      Seattle, WA

**Google Maps**      **May - August 2017**

- Applied a linear regression ML algorithm to preemptively classify A/B testing outputs with TensorFlow
- Utilized industry standards, such as Guice and Mockito, to develop high-coverage unit tests and promote reliable, production ready code
- Developed a Java backend pipeline that identifies matches between A/B testing results and groups them in an intuitive format to streamline release test results analysis

President      Rolla, MO

**Beta Alpha of Kappa Alpha**      **November 2018 - Present**

- Established and communicated key objectives to unite over 100 members toward a common goal
- Empowered officers and committee heads to establish and complete high-level goals throughout our term
- Regularly interacted with campus leadership to lobby for the needs of the organization and the Greek community

Data Structures Grader      Rolla, MO

**Missouri S&T**      **August 2017 - May 2018**

- Developed a modular auto-grader using C++ unit tests to quickly score assignments and push the results to the student portal without grader interference
- Led students to develop better coding habits by designing assignments around writing testable code
- Utilized C++ unit tests to fairly and efficiently grade over 200 weekly student submissions

## Technology Experience

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|-------------|---|
| Experienced | Java, C++, Python, C, Project Componentization, Unit Testing        |
| Proficient  | Javascript, Closure, Databases, Microcontrollers, Operating Systems |
| Exposure    | Guice, ML, Go, Rust, SQL  |