


Logan Stack

Software engineer with B.S. in computer science and 3+ years' experience at a top company in the automotive industry. Developed algorithms for autonomous camera quality control and co-authored the pipeline for embedded vehicle software. Seeking to leverage proven expertise for a new and challenging software engineering role.

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Work Experience

Software Engineer II – General Motors (Autonomous Vehicles)

Detroit, MI · 2022 - Present

- Built a web application using React, Flask, and Electron to host in-house image quality control software
- Developed tools for the evaluation of individual image quality properties such as luminance and noise
- Increased runtime efficiency of patent-pending algorithm for Modulation Transfer Function by 55%
- Founded and lead a software scrum team serving as its scrum master
- Managed and supervised two engineers in the rotational program

Dev Ops Engineer – General Motors (Vehicle Motion and Embedded Controls)

Detroit, MI · 2019 - 2022

- Co-authored a Jenkins-based continuous integration & continuous development pipeline, written in Groovy, that is responsible for regularly building, testing, and logging 65 software components
- Wrote a script in Python that detects build errors and reports them directly to the offending author
- Utilized Python and Git repository history to automate the generation of release letter content for Electronic Control Units, serving as official business records with 10 new records being generated daily
- Devised an algorithm for the automated archival of ILM compliant material

Software Engineer Intern – Michelin

Greenville, SC · 2018 - 2018

- Authored a repository migration application to automatically transfer data from Subversion to Git using the Grails framework
- Created a blockchain to track resource allocation and value analysis in End User Experience using Multichain, MongoDB, Express.js, Angular 6, and Node.js

Education

B.S. in Computer Science – The Pennsylvania State University

University Park, PA · 2015 - 2019

Technical Skills

Languages - Python, Java, Groovy, C++, C, Javascript, Bash, MySQL, HTML, CSS, Lua, Perl

Tools & Frameworks - Flask, Spring, React, Node.js, Electron, Bootstrap, Git, Github, Gerrit, Jira, Jenkins, Docker, Kubernetes, Artifactory, Rational Team Concert

Certifications - SAFe 5.1, Design for Six Sigma (DFSS)

Projects

illustrate_me Python

- A program that adds AI generated illustrations to books by using topic modeling to determine the central theme of each page

Google Trends Web App Javascript, Express.js, Angular, HTML, CSS, Bootstrap

- An online game developed with the MEAN stack and Google Trends API to guess search term popularity