

JOE HEFLIN

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EDUCATION

Duke University, Pratt School of Engineering

May 2021

B.S. Electrical & Computer Engineering, B.S. Computer Science

- Relevant coursework: Data Structures & Algorithms, Advanced Computer Hardware, Software Design & Implementation, Operating Systems, Eng. Software for Maintainability, Database Systems, Computer Networks

SKILLS AND CERTIFICATIONS

CERTIFICATIONS: AWS Certified Cloud Practitioner

PROGRAMMING LANGUAGES: Python, Java, C++

LIBRARIES & FRAMEWORKS: Android Automotive, ReactJS, Django, Selenium, Pandas

WORK EXPERIENCE

Software Developer, Infotainment

5/23 - Present

General Motors, Software Defined Vehicle: Vehicle Data and Bridges

Detroit, MI

- Developed applications using the Android Automotive framework to monitor and distribute vehicle data associated with the Infotainment platform.
- Required maintaining personal test bench and debugging software changes using hardware components.
- Languages used include Java and C++, working within the Agile framework using Git-based version control.

Software Architecture Engineer

8/22 – 5/23

General Motors, Vehicle Intelligence Platform Execution Mechatronics

Detroit, MI

- Lead or helped with various projects transitioning our vehicle electrical architecture to increase flexibility and extensibility.
- Used DFSS methodology to select a mechanism for modules to self-identify when connected to network.
- Responsible for writing requirements, leading meetings, and making design decisions.
- Required acting upon and solving highly ambiguous problems with inventive solutions as well as advocating for changes in tools and processes to utilize advantages of the new architecture.

Software Integration Engineer

1/22 – 8/22

General Motors, Vehicle Data Hub Software Integration Team

Detroit, MI

- Developed an extensible tool in python to simulate and visualize data loss and identify system limitations.
- Worked alongside development team to troubleshoot software changes on a test bench.

Software Engineer Intern

5/20 - 8/20

Trantor Inc.

Remote

- Managed automated data acquisition side of NLP ML application to identify technical and soft skills required given a specific career dynamically sourced from a diverse set of web pages.
- Wrote scripts to scrape text from various websites using Python's selenium framework.
- Analyzed ambiguous data to discern which scraping algorithm / data source scheme was most effective.

OTHER EXPERIENCE

Senior Design Course: Designing Software for Maintainability

1/21 - 5/21

- Designed and programmed dynamic website to track electrical instruments using ReactJS.
- Built Test suite in python for Django Rest API.
- Implemented reusable multiple site features such as tables, drag and drop menus, and a pdf generator.

Completed Coursera Courses

- Cloud Computing Foundations; Cloud Virtualization Containers and API

3/23 – 8/23