# Kaveri Bagade

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## EDUCATION

**University of California, Irvine** June 2020
*Bachelor of Science, Computer Engineering*

## SKILLS

**Technical**: Java, SQL, Python, C/C++, Databricks
**Professional**: Excel, PowerBI, SAFe (Agile) Certified, Linux, Atlassian JIRA, Six Sigma Certified

## PROFESSIONAL EXPERIENCE

**General Motors** July 2022 – Current
*Regulatory Certification and Compliance Data and Operations Engineer* *Milford, MI*

- Developed an internal data pipeline in Hive and Databricks to track all certification-relevant data for the millions of vehicles GM manufactures world-wide, pulling from different existing sources, to reduce 3 months of manual work into an automated process that runs within 10 minutes
- Built a custom tool with a complete user interface using Java to generate an eXtensible Language Markup (XML) document for the EPA Off-Cycle Credits report, turning the complex 40-hour, multi-person process into a button click that outputs a file in seconds
- Standardized the process to determine final vehicle state location interdepartmentally across Certification, Sales, Marketing, and Legal
- Fulfilled ad hoc data queries for reports to government agencies (CARB/EPA/NHTSA) and for communication to internal upper management using complex SQL queries in Apache Hive and Spark
- Supported the continuous integration and deployment (CI/CD) of the new IT system by using Java, TestNG, and Selenium to automate functional and end-to-end tests to replace over 3 hours of repetitive manual work required after every weekly deployment and to ensure reliability and quality for current users

**General Motors** July 2020 – July 2022
*Track Rotational Program Engineer* *Warren, MI*

- *Virtual Reality Software Visualization* - Organized and led presentations demonstrating Primitive, a software visualization tool in virtual 3D space, and integrated GM software into packages for external teams to analyze their program code
- *Google Automotive Services (GAS) Software Integration Engineer* - Tested GAS related issues on test benches and on vehicles for GMC, Buick, and Cadillac infotainment systems and analyzed defect logs to submit bug tickets to the appropriate team
- *Test Bench Development Engineer* - Orchestrated the development of a MY24 Ultra Cruise L233 (Lyriq) component bench, including developing the bill of material (BOM), designing the Visio layout, ordering and tracking parts, and creating wiring documents
- *Feature Functions Engineer* - Performed a detailed analysis of controller software to develop a master list of OBD faults that could cause an increase in emissions for an anticipated CARB requirement

**Edwards Lifesciences** Summer 2019
*Engineering Intern* *Irvine, CA*

- Programmed a Universal Robot robotic arm to perform critical care verification and validation testing and built a remote, ethernet-based Python server to control and communicate with the robotic arm

**Maui Imaging** Summer 2018
*Computer Engineering Intern* *Sunnyvale, CA*

- Integrated remote procedure call (gRPC) messages and open-source widget software libraries (Qt) in a Linux environment using C++ to create a full touchscreen control panel to replace the mechanical one on Maui Imaging's ultrasound system
- Implemented all current projects into JIRA and proofed and edited documentation for quality systems according to medical device standards

## HOBBIES/INTERESTS

Flag Football, Field Hockey, Golf, Sewing, Crocheting, Reading, AI/ML, iOS App Development (Swift)