

Sravan Balaji

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EDUCATION

- **University of Michigan**

BSE in Mechanical Engineering and Computer Science in Progress; GPA: 3.726

Ann Arbor, MI

Sep. 2016 – Dec. 2020

WORK EXPERIENCE

- **Hughes Network Systems**

Software Development Intern

San Diego, CA

May 2019 – Aug. 2019

- Designed and developed Windows GUI app in C# using .NET framework; automated mobile terminal configuration process to reduce user involvement, prevent errors, and decrease configuration time
- Implemented location based services on terminal software written in C; used MQTT-SN protocol to provide low-cost method of sending GPS data to server

- **Rivian**

Business Technology Intern

Plymouth, MI

May 2018 – Dec. 2018

- Championed effort to remove Bill of Materials data inconsistencies; developed Excel macro to summarize mass and cost data, find incorrect data, and alert project managers; resulted in faster detection and resolution of issues
- Introduced and implemented an internal website that collected and displayed data from business systems using Python and Django Web Framework; worked with APIs to present reports of issues by severity
- Led effort to create a new service desk for IT team; worked with Jira Service Desk to create custom automation rules and workflows based on collected requirements; resulted in 70% to 95% increase in ticket resolution within SLA targets

Vehicle Integration Intern

Jun. 2017 – Aug. 2017

- Developed a program in Java to summarize results of simulation; allowed users to modify inputs to see projected results of simulation to avoid additional testing and reduce costs

RESEARCH

- **Compliant Systems Design Lab**

Research Assistant

Ann Arbor, MI

Jan. 2019 – Apr. 2019

- Designed and conducted an experiment to investigate the applicability of digital image correlation (DIC) for analyzing strain in fiber reinforced elastomeric enclosures (FREEs)
- Assisted in development of a C++ program to analyze creep behavior of a FREE and generate plots

PROJECTS

- **SPARK Electric Racing at the University of Michigan**

Mechanical Engineer

Ann Arbor, MI

Oct. 2016 – Apr. 2019

- Manufactured parts for Spark electric motorcycle on mill based on engineering drawings; assembled parts and made adjustments when needed to ensure proper functionality without requiring additional machining
- Designed and manufactured welding jigs, fairing mounting tabs, and frame components in CATIA; made engineering drawings of parts in SolidWorks for manufacturing

SKILLS

- **Programming:** C++, C#, C, Java, Python, Arduino, Excel VBA, L^AT_EX, HTML
- **Computer Aided Design:** SolidWorks, CATIA
- **Simulation:** MATLAB, Simulink
- **Manufacturing:** University of Michigan Wilson Center Basic I & II, Mill Training
- **Languages:** English (first language), French (conversational), Tamil (conversational)