TYLER BUGBEE

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PROFESSIONAL SUMMARY

Motivated Software Engineer with experience developing enterprise applications and conducting award-winning space exploration research. Passionate about autonomy, computer vision, and exploring the nature of things using data.

EXPERIENCE

Aflac – Atlanta, GA   May 2021 – Present
Lead Automation Engineer
As the Lead Automation Engineer for Aflac's Premier Life, Absence, and Disability Solutions group, I manage the software lifecycle targeting automation and efficiency opportunities.

- Oversee a team consisting of business analysts, test engineers, and software engineers to ensure effective delivery.
  - Salesforce is the primary platform - Apex (Java-like OOP language) is used to deliver solutions.
  - Conduct code reviews and ensure high coding standards: establish and follow enterprise patterns, manage memory/runtime complexity, and guarantee best practices for a multi-tenant environment.
- Conduct discovery and prioritization exercises with high-level stakeholders and operations leadership.
- Interface with other program delivery managers, developers, and analysts to foster a productive and healthy IT working model.
- Perform proofs of concept with emerging technologies and leaders in strategic technology spaces, evaluate and implement nuanced solutions to large-scale business initiatives.
- Manage partner development teams and vendor relationships.

Broadspire, a Crawford Company – Atlanta, GA
Lead Software Engineer, RPA Program Manager   March 2020 – May 2021
As the Program Manager for Broadspire's global automation initiative, I drove implementation, architecture, governance, and solution engineering across multiple teams and geographies. I also led the RPA engineering and process analysis team for Broadspire US.

- Established and oversaw the global RPA Center of Excellence to ensure alignment at all levels of the organization, advise other business areas in their implementation of RPA technologies, and manage the integration and relationship of our RPA vendor.
  - Under my guidance, the RPA program at Crawford grew from a single team under Broadspire US to 7 teams spread over 6 countries.
- Architected and implemented the automation of a claim intake process, which reduced processing time by 90%. This improvement directly benefited Crawford's relationship with the 3 largest clients by revenue.

Software Engineer   January 2018 – March 2020
I was the technical lead for the organization-wide automation project, serving as lead developer and technical advisor to a dedicated team reporting to the Director of IT.

- Utilized the Agile/SCRUM methodology to engage with business stakeholders across multiple business lines.
- Developed and deployed RPA solutions to several corporate locations that directly improved revenue-generating business processes.
- Automation projects were developed using UiPath, Microsoft VB .NET, C#, and other languages as required such as Python, JavaScript, and SQL.

University of Georgia Small Satellite Research Laboratory – Athens, GA   October 2017 – January 2018
Leadership – Electronics Team Lead
I managed the Electronics team and ensured deliverables were completed to a high standard and on-schedule with periodic reviews.

- Driver of decisions regarding the development of the electronic subsystems onboard the satellite, often acquiring expertise in unfamiliar topics.
- Collaborated with other teams, such as mechanical, mission operations, and lab operations to ensure mission success criteria were met.

Electronics Team - Research and Payload Integration Engineer   February 2017 – October 2017
I operated as an undergraduate researcher in the Small Satellite Research Lab on two missions funded by NASA and the Air Force Research Laboratory in collaboration with the University of Georgia.

- Integrated software and hardware components with existing systems:
    - Interfacing complex software infrastructures with existing libraries
    - Evaluating payload requirements and determining methods of integration
- Developed the driver-level communication methods for each subsystem of the MOCI satellite mission using an array of hardware description languages and system-level languages such as C and C++.
    - Gained proficiency in protocols such as SPI, I2C, UART/RS-422 and CAN
- Software libraries were written in C++ and include NVIDIA CUDA workloads focused on image processing and mesh layer generation.
- Satellite payloads included imaging sensors, GPUs, and FPGAs.

Broadspire – Atlanta, GA   June 2015 – December 2017
Junior Software Engineer
I operated as a key team member of the IT business unit dedicated to establishing a Robotic Process Automation COE.

EDUCATION
University of Georgia – Athens, GA   Graduated December 2017
Bachelor of Science, Computer Science

Georgia State University – Atlanta, GA   June 2014 – May 2015 Honors College
Bachelor of Science, Computer Science