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BRYAN HOOKER

github.com/bghook
bghook.github.io/bghsoftware

EXPERIENCE

Software Engineer   **SAIC**   **2019-2022**

- Developed software in C++ for aviation platform's onboard flight program
- Led the development of a suite of automated software tests for a high-visibility program feature, improving test coverage and reducing manual testing efforts by 50%
- Led a successful Formal Qualification Test (FQT) of the new suite of automated tests for the customer, verifying and validating over 100 new system requirements
- Represented the team as a feature lead in high-stakes meetings with the customer and other stakeholders
- Collaborated with cross-functional teams to analyze over 200 existing and proposed software requirements
- Key Technologies: C++, Visual Studio, Linus, SVN, JIRA, Variable Message Format (VMF)

Software Engineer   **Lockheed Martin**   **2022 - 2023**

- Developed software in Python for missile flight program
- Designed new test scripts in Python and helped maintain existing missile flight test script library, leading to a 10% increase in test coverage for missile configuration verification
- Automated user-interaction functionalities performed by Systems Engineers during testing, saving 2 hours of manual effort weekly
- Provided on-site software debugging and support during formal software test events
- Key Technologies: Python, VS Code, Git, Agile, JIRA, QT Framework for GUI Applications, Messaging

Software Engineer   **Booz Allen Hamilton**   **Jan 2023 - Oct 2023**

- Developed software for applications designed to aggregate and process large-scale datasets from disparate source systems, including electric utilities and defense
- Gained hands-on experience with cloud-based, scalable systems
- Deepened expertise in full stack development while completing the C3.ai Software Development Track
- Key Technologies: Python, Java, VS Code, Git, Agile

EDUCATION

Athens, GA   **University of Georgia**   **2016 – 2019**

- Bachelor's Degree - Computer Science, July 2019

Tuscaloosa, AL   **University of Alabama**   **2008 – 2015**

- Master's Degree - Political Science, May 2015
- Bachelor's Degree - Political Science, May 2012

SOFTWARE PROJECTS

- **AI Chatbot**
  - Built a full stack AI chatbot web application while learning the MERN tech stack
  - Inspired by ChatGPT, the app features modern design with React and integration with OpenAI APIs
  - Key Technologies: HTML, CSS, JavaScript, TypeScript, React, MongoDB, Express, Node.js, Git, VS Code

SKILLS

- **Programming Languages**: Python, C++, Java, HTML, CSS, JavaScript, TypeScript
- **Technologies and Frameworks**: React, Agile, Git, JIRA, VS Code, Visual Studio, Linux
- **Credentials**: Top Secret Clearance