

Garrett Southam

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SUMMARY

Junior software engineer with experience developing automation tools for radar sensor systems. Proficient in object-oriented design and test-driven development, having contributed to projects that enhance analysis speed and data presentation efficiency. Eager to leverage technical skills in C/C++ to build robust software systems and drive improvements in performance and efficiency.

SKILLS

- **Programming Languages:** C#, C, C++, Java, Python
- **Frameworks & Tools:** .NET, Arduino, Linux
- **DevOps & Testing:** CI/CD, Automated Testing, Test-Driven Development, Object-Oriented Design
- **Data Analysis & Automation:** Data Analysis, Automation Strategies, Excel, Data Visualization

EXPERIENCE

Wavetronix

Engineering Assistant

Sep 2019 - Present

- Maintained radar test sites for product testing and firmware development, supporting increased product reliability
- Collaborated with software developers, engineers, and QA testers to streamline the site analysis process, improving the speed and efficiency of the analysis workflow
- Developed internal tools for device monitoring, firmware updates, and log analysis, which contributed to quicker identification and resolution of system issues
- Built dashboards and visualization tools to present test data to company leadership weekly and monthly, enhancing decision-making with timely and accurate information

Wavetronix

Production Assembler

Sep 2017 - Jan 2020

- Assembled and tested radar sensors to meet manufacturing standards, processing hundreds of sensors daily.
- Collaborated with QA and hardware engineering teams to identify and resolve hardware issues.

EDUCATION

Brigham Young University

Dec 2025

B.S., Computer Science

- **Coursework:** C, C++, Java, Python., Data Structures, Discrete Mathematics, Web Programming, Computer Systems (C/x86), Computational Theory, Calculus, Physics

ADDITIONAL EXPERIENCE

Pleasant Grove High School, Shakespeare Coeur d'Alene

Technical Director and Theatrical Lighting Designer

- Led technical theater teams for both student and professional performances.
- Gained hands-on experience in leadership, creative design, and technical coordination.
- Ensured smooth operation of complex systems in high-stress situations.