

# Peyton

## Smith

### Professional title

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I am a driven engineer leveraging my 2 years of industry experience in real-time systems and cloud architecture to build innovative, scalable solutions for complex industry problems.

### Work experience

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#### Boeing | Real Time Software Engineer

*Berkley, MO | 06.2024 - Current*

- Developed, tested, and maintained new real-time multi-process flight software features for airframes in Python, Ada, and C++ in an Agile development environment.
- Spearheaded internal data conversion tool for regression testing, reducing a 80 hour process to a single click and reducing CI/CD regression test errors by 95% post conversion.
- Identifying 70+ bugs, issues, and coverage deficiencies in a short time by writing through CI/CD regression tests for industry level requirements.
- Led audit reviews with customers, presenting test code and deliverables to confirm full compliance with contractual requirements.

#### CWC Global | Part-Time Contract Software Developer

*Remote | 10.2024 - Current*

- Designed and implemented an innovative AWS serverless data pipeline (S3, Lambda, Python, OpenAI) that utilizes LLMs for automated call transcription and grading.
- Delivered a 20x expansion in grading capacity and a direct saving of 8 managerial hours per week, demonstrating expertise in prompt engineering and secure cloud architecture for high-value analytics.

#### Lockheed Martin | Sensor Fusion Engineering Intern

*Fort Worth, TX | 05.2023 - 08.2023*

- Created C# application in .NET for modeling Clean Software Architecture of library components.
- Collaborated effectively in a scrum team following the Agile bi-weekly release schedule.
- Trained in sensor fusion principles including Kalman Filter and TDOA algorithms for real time systems.

### Education

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#### Texas A&M University | B.S. in Computer Engineering

*College Station, TX | 08.2020 - 05.2024*

Study abroad at SUTD (Singapore), 1000 hours of mental health volunteer service

### Skills

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C++ • Ada • Python • AWS • ROS • Git • Jira • Scrum • Agile Development • Bilingual (Portuguese & English) • Active listening

### Projects

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- **Twitter Sentiment Analysis using Viterbi Algorithm**: Tweet sentiment analysis tool using a Hidden Markov Model algorithm. (Python, Hidden Markov Model, Viterbi)
- **Lidar Tracking and Mapping System**: Kalman Filter and Mapping (SLAM) algorithms to identify the environment and people and track their state. (Python, ROS, Kalman Filter, SLAM)
- **BOUND**: Mobile app for sharing Books, Quotes, and Reviews. (React Native, TypeScript, Expo, SQL, Redux)