Ronald Lane [in]

Software Developer

Active Secret Security Clearance

Bickmore, WV • RTLane84@gmail.com • (717) 425-9111

Profile Summary

Software Developer with hands-on experience building event-driven microservices using Java, Spring Boot, and Apache Kafka, following Agile practices with Jira, Confluence, and Git. Skilled across the full SDLC, delivering clean and maintainable code. Strong collaborator with proven ability to align cross-functional teams and meet tight deadlines. Former RF Engineer with 7+ years in defense and communications systems, bringing a foundation in complex problem-solving and systems thinking to modern software development.

Technical Skills

Programming Languages: Java, C++, Javascript
Frameworks & Architectures: Spring Boot, Event-Driven Microservices, Apache Kafka
Dev Tools: GitLab, Bitbucket, VSCode, Jira, Confluence
Office and Data Tools: Microsoft Office, Alteryx, FME

Education

West Virginia University Institute of Technology ⬈   Beckley, WV

Bachelor of Science in Electronic Engineering Technology   August 2013 - December 2016

Work Experience

Mantech ⬈   Clarksburg, WV

Application Developer   November 2024 - July 2025

• Developed and maintained an event-driven microservice as part of a team supporting NCIC.

• Utilized Java, Spring Boot, and Apache Kafka to build scalable, microservices for real-time data processing and communication.

• Followed Agile practices using Jira for task tracking and Confluence for documentation and knowledge sharing.

• Participated in daily stand-ups, sprint planning, and peer reviews to ensure code quality, functionality, and delivery goals were met.

• Contributed to the full SDLC including design, development, testing, deployment, and support.

Cummings Aerospace ⧉

Niceville, FL

Software Engineer

August 2023 - November 2024

• Played a pivotal role within the **Software Development Life Cycle** by enhancing defense-related software systems, ensuring robust architecture compliance and seamless functionality, and delivering clean and scalable code in **C++**.

• Collaborated within a multidisciplinary team including Software Engineers, Embedded Engineers, Electrical Engineers, and System Engineers, maintaining a close communication and asking calibrated questions to remove bottlenecks and reach alignment.

• Thoughtfully identified functional & **system requirements**, researched adequate technologies and selected architectural & design patterns allowing for maximum scalability and performance.

• Enhanced and refined the **C++ codebase** for the verification software by implementing targeted algorithm optimizations such as a custom **packet framing algorithm** for an **RS422** serial interface, **debugging** features for the UDP interface, and **multicast** capability for UDP, successfully addressing new requirements and boosting code efficiency.

• Conducted Integration Tests, Regression Tests, and Functional Tests, rigorously assessing compliance with **Weapon Open Systems Architecture** standards by running custom software to ensure communication over different interfaces (UDP, Serial, Ethernet, shared memory) with a custom system, verifying the ability to send and receive messages effectively.

• Delivered **technical presentations** to the team on new designs, features and development plans. Maintained a high engagement in meetings, asking calibrated questions to reach alignment and optimize for delivery.
• Engaged in **continuous learning** and professional development, staying abreast of emerging technologies and industry trends, ensuring the incorporation of cutting-edge tools and techniques in the development process.

Huntington Ingalls Industries (HII) ⧉

Annapolis Junction, MD

RF Engineer II

July 2022 - August 2023

• Contributed to the technical effort by designing, planning, developing, testing and optimizing defense communication systems, focusing on reducing radio frequency interference and enhancing operational effectiveness.

• Analyzed and mitigated potential **radio frequency interference (RFI)** among diverse radar platforms including airborne, shipborne, and ground systems, using a proprietary RF Propagation, Analysis and Design tool, effectively enhancing system compatibility and operational reliability.

Shentel ⧉

Edinburg, VA

RF Engineer

January 2019 - July 2022

• Led a network optimization and capacity planning initiative across **200+** cell towers in West Virginia and Kentucky, using **Alteryx** for propagation modeling, performance monitoring, and troubleshooting, improving overall network efficiency.

• Developed an automated **cell network KPI** monitoring solution with **Alteryx**, generating **$150,000** in savings by automating data collection, analysis, and reporting, and implementing hourly issue alerts.

• Increased network speeds by directing spectrum planning and optimizing network parameters with a team of **4**, focusing on forecasting and performance enhancements to boost capacity.

• Developed and implemented complex models and workflows to evaluate and analyze market data, driving strategic decisions and cost analyses for new market entries, which facilitated the development of robust business cases and technology selections, ultimately supporting growth plans.

• Constructed a real-time analytics platform utilizing **Alteryx** and **FME** to monitor market dynamics continuously, enabling instant strategic adjustments and resulting in an increase of decision-making speed.

• Engineered a data integration system to consolidate diverse data sources, enhancing data accessibility and accuracy, thereby supporting more informed decision-making and achieving a data error reduction.