

Strayer Russell

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Summary

Detail-oriented and adaptable Backend Software Developer with a proven ability to engineer solutions in constrained and legacy environments. Skilled in C, JavaScript (Node.js), and Linux systems, with experience migrating complex applications, restoring legacy software, and developing full-stack projects. Combines strong technical problem-solving with leadership experience to deliver robust and maintainable systems.

Technical Skills

Programming Languages: C, JavaScript/Node.js, TCL, SQL, Bash, HTML/ CSS

Frameworks & Platforms: React, Node.js, Linux, Cisco IOS

Tools & Concepts: Git, Legacy System Modernization, State Machine Architecture, Real-time Systems, Technical Documentation, Full-Stack Development

Project Experience

Project Lead

Media Archaeology Lab – UT Dallas

Aug 2024 - Dec 2025

- Engineered the migration of an auditory escape room game from Unity to **Cisco IOS**, adapting game logic to the constraints of the **TCL** language within a hard real-time, event-driven state machine framework.
- Spearheaded the restoration of a Xerox PARC museum showpiece by reverse-engineering its original broken software (Windows NT 4.0) and **re-implementing its core functionality in a modern Linux environment**, significantly improving long-term maintainability.
- Authored comprehensive technical documentation detailing restoration procedures and system maintenance, ensuring future project continuity.

Team Lead

First Robotics Team 5103

Aug 2018 - May 2022

- Provided technical leadership and project management during a period of significant team member turnover, implementing processes that ensured organizational and technical continuity for competition readiness.

Education

B.A. in Technology and Communications

University of Texas at Dallas

Aug 2022 - Dec 2025

Richardson, TX

Key Relevant Coursework: Software Engineering, Systems Design, Technical Communication

Certifications & Awards

Full Stack Web Development Certification

HTML, CSS, SQL, JavaScript, React, Node.js

Best Restoration Award

VCF Southwest 2025

Eagle Scout

Boy Scouts of America

National Honor Society

2022 - Present

Phi Theta Kappa Honor Society

2022 - Present