CLAY REDDICK

Software Engineer & Project Lead

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📍 Jonesboro, Arkansas   (Open to Remote Opportunities)

PROFESSIONAL SUMMARY

Innovative and driven Software Engineer with over 9 years of experience in full-stack development, systems architecture, and technical leadership. Adept at designing secure, scalable applications across web, mobile, and embedded platforms. Proven record of leading engineering teams, launching production-ready software, and driving research-grade innovation—culminating in patent-pending technologies that redefine secure digital access. Quick to master new technologies and consistently recognized for exceptional problem-solving and cross-disciplinary collaboration.

CORE SKILLS

Languages: C, C++, C#, Java, Kotlin, Python, Go, JavaScript, TypeScript, VB, Kotlin
Frameworks & Tools: .NET, ASP.NET Core, React, Vue, Angular, Django, Next.js, Flask, Node.js
Databases: SQL Server, PostgreSQL, MySQL, SQLite
Cloud & DevOps: Azure, CI/CD Pipelines, Linux & Windows Environments, Git
Focus Areas: Full-Stack Web Apps, Secure Android OS Development, Embedded Systems, Leadership & Mentorship

PROFESSIONAL EXPERIENCE

Tech Friends, Inc — Jonesboro, AR
Software Engineer & Project Lead   Jan 2017 – Present

- Lead developer and architect on multiple full-stack systems using .NET backend and React frontends, supporting mission-critical correctional software platforms.
- Project Lead for two flagship initiatives:
  • Response Software – spearheaded design and development of a next-generation platform enabling real-time inmate communication and monitoring.
  • Custom Secure Android OS – led a cross-functional team to engineer a hardened Android build providing maximum-security tablet access for correctional environments.
- Designed and implemented a patent-pending solution allowing controlled web content access for inmates, enabling educational and rehabilitative resources without security compromise.
- Oversaw migration of legacy systems into modern architectures, reducing maintenance overhead and increasing reliability.

- Recognized for versatility and technical leadership—frequently tasked with proof-of-concepts and integration of new technologies into production.

Arkansas Biosciences Institute (ABI) — Jonesboro, AR
Junior Programmer / Research Assistant   May 2015 – Dec 2016

- Collaborated with researchers to model soil erosion using C++ and Python, contributing to the Libraster framework supporting RUSLE2 and WebSim applications.
- Created GUI applications that streamlined simulation workflows and data visualization.
- Research contributed to accurate erosion mapping tools that helped farmers maximize crop yield and environmental sustainability.

Freelance Software Developer
2017 – Present

- Delivered full-stack software solutions for clients in web, mobile, and IoT domains.
- Known for quickly adapting to diverse client requirements and technologies.

EDUCATION

Bachelor of Science in Computer Science
Arkansas State University – Jonesboro, AR (2017)
Magna Cum Laude, completed degree in three years

SELECTED PROJECTS

- Patent-Pending Inmate Web Access Platform – designed secure intermediary system that filters and sanitizes live internet content for correctional tablet environments.
- Response Software Platform – led development from concept to production, integrating real-time monitoring, web socket communication, and modern React-based UI.
- Solar Farm Dashboard – IoT-driven energy tracking platform with cloud-synced analytics and custom reporting.

PROFESSIONAL ATTRIBUTES

- Rapid learner with proven ability to master new frameworks and domains quickly.
- Strong communicator, team motivator, and collaborative problem solver.
- Passionate about building efficient systems that empower users and simplify complex processes.
- Committed to continuous learning, mentorship, and innovation in technology.

REFERENCES

Available upon request.