

Kyle O'Connor, Software Engineer

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SUMMARY Senior level Software Engineer with strong technical and leadership skills as well as 12 years of experience across the R&D, defense and biometrics industries.

EXPERIENCE Princeton Identity, Lead Software Engineer

2016-08 — Present

- Princeton Identity is a biometric identity management company used in various markets such as government, physical access control, commercial real estate. Created as a spin-off from SRI International with investment from Samsung.
- Lead the software team and all software development efforts, including software/hardware integration
- Architected multi-tenant cloud application using AWS (and other services), focused on security and best practices
- Design and develop frontend and backend web applications for multimodal biometrics products (Spring Boot, React, PostgreSQL)
- Experience with embedded software and BSP development (Linux kernel drivers, PIC firmware)
- Implement and maintain DevOps infrastructure on-prem and in the cloud, including automated deployment and monitoring
- Familiar with mobile development on Android and iOS
- Excellent configuration management practices - branching, merging, release candidates, etc.

SRI International, Software Engineer III

2010-07 — 2016-08

- Member of System Software Design and Development group
- Maintained common software framework across all products
- Designed and developed software for multiple products in the biometrics and geospatial domains such as multimodal biometrics on mobile (Android) and embedded platforms, real-time video processing and georegistration systems
- Algorithm implementation from MATLAB, focused on accuracy/performance/optimization (SIMD)
- Supported the infrastructure for continuous integration, static analysis, and unit testing

Lockheed Martin ATL, Software Developer

2009-04 — 2009-09

- Member of User-Centered Interfaces group focusing on Human Computer Interaction
- Lead the integration of two major internal software products
- Interfaced with spoken language understanding technology
- Handled multiple development tasks in Java and coordinated with a team of developers
- Implemented software utilities to automate manual testing tasks
- Designed dynamic and interactive interfaces for augmented reality efforts

Lockheed Martin MS2, Test Engineer

2008-04 — 2008-09

- Member of Engineering Test & Evaluation team for Ballistic Missile Defense signal processor
- Performed radar and signal processing tests at navy test facility
- Wrote documentation for test requirements and procedures
- Obtained full secret security clearance and dealt with classified information

PJM Interconnection, IT Support Analyst

2007-04 — 2007-09

- Member of Windows Infrastructure department
- Supported packaging and distribution of software/updates to company
- Aided department with general IT and Windows support
- Instrumental in training new employee on packaging processes

PUBLICATIONS**"Method and System for Seamless Biometric System Self-Enrollment", Patent (Provisional)****"Face Biometric Recognition with Anti-Spoofing", Patent (Provisional)**

EDUCATIONDrexel University

2005-09-01 — 2010-06-15

BS - Computer Engineering, GPA: 3.62

- Graduated with honors (Cum Laude)
- Scholar-Athlete (NCAA Division 1)
- Minor in Business Administration
- Honors student
- Spanish

SKILLSProgramming Languages (*master*): Java, C/C++, SQL, C#, JavaScript/TypeScript, C++/CLI, Python**DevOps (*master*):** Terraform, AWS, Docker, GitHub Actions, Jenkins**OS (*master*):** Windows, Linux (Ubuntu, CentOS), Embedded Linux**IDE (*master*):** VS Code, IntelliJ, Visual Studio**Static Analysis (*master*):** FindBugs, Snyk, Coverity**Unit Testing (*master*):** JUnit, Mockito**Build Tools (*master*):** Gradle, CMake, MSBuild, WiX Toolset**Version Control (*master*):** Git, Subversion, TFS

LANGUAGESBrazilian Portuguese (*Elementary proficiency*)**INTERESTS**Soccer
