

Kyle O'Connor

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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.

Resume (PDF) **LinkedIn**

SKILLS

PROGRAMMING LANGUAGES	Java, C/C++, SQL, C#, JavaScript/TypeScript, C++/CLI, Python
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DEVOPS	Terraform, AWS, Docker, GitHub Actions, Jenkins
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OS	Windows, Linux (Ubuntu, CentOS), Embedded Linux
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IDE	VS Code, IntelliJ, Visual Studio
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STATIC ANALYSIS	FindBugs, Snyk, Coverity
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UNIT TESTING	JUnit, Mockito
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BUILD TOOLS	Gradle, CMake, MSBuild, WiX Toolset
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VERSION CONTROL	Git, Subversion, TFS
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EXPERIENCE

Princeton Identity

Lead Software Engineer Aug 2016 - 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 Jul 2010 - Aug 2016

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
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Lockheed Martin ATL

Software Developer Apr 2009 - Sep 2009

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
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Lockheed Martin MS2

Test Engineer Apr 2008 - Sep 2008

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
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PJM Interconnection

IT Support Analyst Apr 2007 - Sep 2007

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

EDUCATION

Drexel University

Sep 2005 - Jun 2010

BS - Computer Engineering GPA: 3.62

PUBLICATIONS

"Method and System for Seamless Biometric System Self-Enrollment"
Patent (Provisional)

"Face Biometric Recognition with Anti-Spoofing"
Patent (Provisional)

LANGUAGES

Brazilian Portuguese
Elementary proficiency

INTERESTS

Soccer