

Kyle J Proctor

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[LinkedIn Profile](#) • Detroit, MI

Software Architect

Agile-minded leader with a proven history of success architecting scalable, secure software solutions, driving significant revenue growth, and leading high-impact cybersecurity and AI innovations.

Credible track record of designing and implementing distributed event driven systems and microservices, with a primary focus on ensuring operational efficiency and robust security within multitenant hybrid cloud environments. Career excellence in integrating cutting-edge machine learning technologies and automation into software architectures, leading to an 80% reduction in manual security event triage. Proficient in driving technological modernization, transitioning legacy systems to containerized microservices, and enhancing data security and identity access management. Creative problem-solver; adept at developing AI-driven solutions, meeting pre-defined project deadlines, fostering architectural innovation, and advocating for team career advancement.

Areas of Expertise

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|--|--------------------------------|--------------------------------|
| • Software Development & Modernization | • Project Planning & Execution | • Risk Assessment & Mitigation |
| • Identity & Access Management (IAM) | • Data Security, Management | • Stakeholder Communication |
| • Cloud Computing & Multitenancy | • Microservices Architecture | • Teamwork, Collaboration |
| • Agile & Scrum Methodologies | • API Design & Integration | • Requirements Gathering |

Technical Proficiencies

Languages	Java Python JavaScript
Frameworks	Spring Spring Boot Conda Nodejs VertX
Virtualization Technologies	Docker Kubernetes OpenShift
Data	MySQL Elasticsearch ServiceNow Remedy Kafka
Source and Version Control	Git GitHub Artifactory
Project planning tools	Jira Mural Drawio
Continuous Integration Systems	Jenkins GitOps Flux Junit OWASP Clair Sonar

Professional Experience

Software Architect, IBM Managed Security Services – Remote

2020 - Present

Develop scalable, portable architecture for X-Force Protection Platform, optimizing for efficiency with automation, machine learning, and high-capacity distributed systems. Enhance team performance by mentoring in Agile development patterns and practices. Prioritize security in overall architectural design, incorporating threat modeling as a standard procedure. Embrace a comprehensive approach in system development and management, thereby ensuring accountability and ownership at all stages.

- Steered all facets of security, scalability, and automation enhancements for X-Force Protection Platform, processing billions of cybersecurity events monthly, serving more than 2,000 clients, and generating over \$1B in revenue over 10 years.
- Executed an intricate migration from Remedy to Service Now, maintaining business continuity for 2K+ IBMers and clients, and crafted an architecture for mapping and translating between vendor products for the X-Force Protection Platform.

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- Guided a range of developers, significantly elevating code quality and streamlining code review processes, and encouraged developer participation in architectural decision-making, guiding at least one towards an architectural career.
- Accomplished an 80% reduction in manual security event false positive triage through research, design, and integration of Machine Learning and automation, securing multiple patents in this area.
- Engineered an efficient AI training framework for OpenShift clusters, lowering ML application onboarding costs with standardized APIs and DevSecOps automation.
- Conceived a data security strategy to prevent cross-customer contamination in a multitenant cloud environment, focusing on microservices.

Senior Software Engineer

2010 – 2020

Implemented a modern CI/CD pipeline for efficient software delivery. Engineered migration strategies for transitioning legacy software to contemporary containerized microservices. Mentored Junior Developers, enhancing team skills and knowledge. Established and refined software development methodologies for optimal practices. Executed intricate testing procedures, while resolving system issues through debugging. Integrated suitable libraries and open-source solutions for project enhancement.

- Leveraged strong leadership skills and supervised a developer team in building a monolithic web services stack for X-Force Protection Platform, focusing on secure SOAP and RESTful JSON APIs for ticket integration, logs, and security events.
- Shifted primary focus to innovation and modernization, transitioning services to a microservices framework in Kubernetes and OpenShift, involving enhancing data security, IAM, and API routing, and integrating continuous integration processes.
- Introduced distributed caching, high-performance event-driven services, and machine learning, resulting in improved capacity, reduced downtime, more frequent updates, and major cost reductions.

Full Stack Software Engineer

2006 – 2010

Conceptualized and developed front-end web applications with innovative features, including specialized interfaces for threat analysts to manage security events. Managed code maintenance and troubleshooting, and provided production support.

- Contributed significantly to front-end and API development (SOAP, REST), with a primary emphasis on enhancing back-end systems like Rule-Based Analytics AI, log ingestion, and policy parsing.

Additional Experience

Threat Analyst, Internet Security Systems Managed Security Services – Southfield, MI

- Established cybersecurity expertise in software engineering through researching and escalating security events, managing devices, tuning appliance policies, and troubleshooting client connectivity.
- Implemented policy changes on firewalls and IDS, and applied patches. Initiated automation of tasks to enhance efficiency, paving way for transition to software development in engineering.

Education

Bachelor of Information Technology | AIU (Online)

Associate of Business Administration | AIU (Online)

Certifications and Badges ([Relevant Link](#))

Patents

- ❖ Similarity Analysts for Automated Disposition of Security Alerts: [11663329](#)
- ❖ Auto Detect Observables and Auto Dispose Alerts from EDR Systems: Filed/Pending