

Kyle Proctor

Software Architect

Detroit Area | [LinkedIn Profile](#) | proctor.kyle@gmail.com

PROFILE

I am deeply passionate about creating software that enhances lives, with a keen focus on AI and automation. My journey has led me to develop expertise in distributed high-performance systems, microservices, AI, machine learning, and cybersecurity. This diverse skill set enables me to craft optimized architectures that meet today's demands and anticipate future needs. I thrive on innovation and am always on the lookout for opportunities to contribute meaningfully in technology's evolution.

SKILLS

- Research to production AI and machine learning, laced with cybersecurity via MLSecOps
- High performance distributed architecture, microservices, data security, DevSecOps
- Technology including Java, Python, JavaScript, Spring, Spring Boot, Conda, Nodejs, VertX, Docker, Kubernetes, OpenShift, MySQL, Elasticsearch, ServiceNow, Remedy, Kafka
- Soft skills in strategic planning, risk management, agile project management, concise communication

EXPERIENCE

SOFTWARE ARCHITECT

IBM Managed Security Services | Detroit, MI (remote) | 2020 - Present

Design scalable, portable, architecture for the X-Force Protection Platform. Increasing efficiencies through automation, machine learning, and high throughput distributed systems. Continual improvement to team performance through mentoring on Agile development patterns and practices. Security-first mindset with threat modeling as standard architecture practice. Build it, own it mentality developing and operating my systems.

ACHIEVEMENTS + HIGHLIGHTS

- **Led innovations in security, scalability, and automation for the X-Force Protection Platform**, which processes billions of cybersecurity events per month for over 2,000 clients, generating over \$1 billion revenue over the past 10 years.
- **Cut manual triage of security event false positives by 80%** by integrating IBM Research automation and AI models. Holding multiple patents in this space.
- **Developed an efficient AI training architecture for OpenShift clusters**, reducing the cost of ML application onboarding with standardized APIs and DevSecOps automation.

- **Delivered complex custom migration from Remedy to Service Now**, ensuring business continuity for over 2,000 IBMers and clients. Designed architecture around mapping and translating the X-Force Protection Platform domain between vendor products.
- **Designed data security solution** to prevent cross customer contamination within and between microservices in multitenant cloud environment.
- **Mentored dozens of developers**, resulting in noticeable improvements to code quality and smoother code reviews. Encouraged developers to make architectural proposals to our governance board, enabling at least one toward an architecture career path.

SENIOR SOFTWARE ENGINEER

IBM Managed Security Services | Detroit, MI (remote) | 2010 - 2020

In the early part of my role, I led a small developer team in building a monolithic web services stack for the X-Force Protection Platform, focusing on secure SOAP and RESTful JSON APIs for ticket integration, logs, security events, and more. In the latter part, my focus shifted to innovation and modernization, transitioning our services to a microservices framework in Kubernetes and OpenShift, which included enhancing data security, IAM, and API routing, along with integrating continuous integration processes. During this time I also introduced distributed caching, high-performance event-driven services, and machine learning, resulting in increased capacity, reduced downtime, more frequent updates, and cost reductions.

FULL STACK SOFTWARE ENGINEER

IBM Managed Security Services | Detroit, MI (remote) | 2006 – 2010

Developed front-end web applications with new features, including a specialized interface for threat analysts to manage security events. Involved in both front-end and API development (SOAP, REST), and enhanced back-end systems like Rule-Based analytics AI, log ingestion, and policy parsing. Also handled code maintenance, troubleshooting, bug fixing, and production support.

THREAT ANALYST

Internet Security Systems Managed Security Services | Southfield, MI | 2005 – 2006

This role laid the foundation for my focus on cybersecurity in software engineering. My tasks included researching and escalating security events, managing devices, tuning appliance policies, and troubleshooting client connectivity. I implemented policy changes on firewalls and IDS, and applied patches. My initiative to automate tasks significantly improved efficiency, setting the groundwork for my subsequent move into a software development role in engineering.

EDUCATION

BACHELOR OF INFORMATION TECHNOLOGY

AIU ONLINE | 2005

ASSOCIATE OF BUSINESS ADMINISTRATION

AIU ONLINE | 2003

Certifications and Badges

<https://www.credly.com/users/kyle-proctor/badges>

PATENTS

Similarity Analysts for Automated Disposition of Security Alerts: [11663329](#)

Auto Detect Observables and Auto Dispose alerts from EDR Systems: Filed/Pending