

Shiu Fun Poon

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Accomplished Software Architect with extensive expertise in security architecture, specializing in OAuth, OpenID Connect (OIDC), and JWT standards. Skilled in designing and implementing secure, scalable systems for both internet and intranet environments. Proven success in developing authentication and authorization frameworks that drive revenue growth and meet rigorous compliance standards such as FedRAMP and FISMA. Demonstrated leadership in integrating AI-driven solutions to ensure product innovation and future scalability. Collaborated with industry-leading security vendors to advance API security strategies. Holder of 4 patents in security.

Core Qualifications

- **Security Architecture & Design:** Expertise in creating secure frameworks using OAuth 2.0, OpenID Connect, JWT (JWS, JWE), OWASP (API, LLM) and WS-* standards
- **Programming Languages:** JavaScript, C/C++, Go, XSLT, Java, SQL, (No)SQL
- **Web Technologies & Protocols:** REST, GraphQL, SOAP, XML, HTTP/HTTPS, JSON
- **Security Frameworks:** Role-Based Access Control (RBAC), OIDC, JW*, API/LLM Security
- **Operating Systems:** Mac, UNIX, Windows
- **Problem Solving & Troubleshooting:** Skilled in resolving complex security vulnerabilities and performance issues
- **Team Leadership & Collaboration:** Strong communicator with a proven ability to lead cross-functional teams and foster collaboration across diverse technical and business stakeholders

Professional Experience

IBM - API Connect – Integration, San Jose, CA

Security Architect/STSM, 2018 – Current

- Architected, designed, and developed a robust authentication and authorization framework, incorporating a customizable Role-Based Access Control (RBAC) model that enhanced product security
- Led the integration of advanced AI capabilities into API governance and enforcement, positioning IBM API Connect as a next-generation solution in the market
- Spearheaded efforts to secure FedRAMP and FISMA compliance, unlocking multimillion-dollar opportunities in the government sector
- Collaborated with OEM partners (Noname, ImVision, Elastic Beam) to bolster API security and stay ahead of evolving cyber threats

- Drove security architecture at high-profile conferences like APIDays and RSA, directly engaging with customers to capture new revenue streams and maintain competitive advantage
- Reduced security vulnerabilities across deployments by 75%, increasing the product's adoption in secure environments

IBM - AIM DataPower, Cambridge/Littleton, MA

Security Architect/Engineer, August 2006 to 2018

- Developed and refined authentication/authorization frameworks, ensuring compliance with OIDC and JW* open standards, which improved the product's security posture
- Led cross-team security efforts in integrating OIDC providers and establishing secure communication channels
- Enhanced security protocols in the development and deployment phases, aligning with IBM's internal security benchmarks
- Presented at key industry events and collaborated with external partners to enhance product offerings, driving revenue growth

IBM - Lotus Iris, Westford, MA

Security Engineer/Team Lead, March 1997 to January 2006

- Orchestrated the CA process for PKIX and Notes public/private key infrastructure, strengthening IBM's internal and external security capabilities
- Programmed and maintained security systems including Access Control Lists (ACLs) and Execution Control Lists (ECLs), ensuring compliance with enterprise security standards

Additional Professional Experience

Open Software Foundation, Cambridge, MA

Software Engineer, July 1996 to December 1997

- Developed role-based application Proof of Concept (PoC) for a research project.

Fidelity Investments, Boston

Software Architect, May 1995 to March 1997

- Designed and programmed DCE components for application programs.

Nationwide Insurance, Columbus, OH

Senior Software Engineer, March 1994 to July 1995

- Designed and programmed DCE components framework for enterprise applications.

Education

Bachelor of Science in Computer and Information Science (Ohio State University)