Shiu Fun Poon

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Profile

Experienced and passionate software engineer specializing in security architecture, with a robust understanding of OAuth, OIDC, JW* standards, WS-*, and traditional security concepts. Demonstrated expertise in architecting, designing, and implementing secure systems for internet and intranet environments.

Core Qualifications

- Proficient in architecting, designing, programming, and analyzing security systems
- Deep understanding of security and data privacy principles
- Skilled in web technologies, protocols, and internet/intranet development
- Proficiency in UNIX and Windows environments, with expertise in Javascript, C/C++, Go, SQL, and XSLT
- Strong problem-solving and troubleshooting abilities
- Excellent communication skills with a proven track record of fostering teamwork across functional areas

Technical Skills: Javascript, C/C++, Go, XSLT, Java, HTML, Unix/Window, (No)SQL

Professional Experience

IBM - API Connect, San Jose, CA
Security Architect/STSM, 2018 – Current

- Architected, designed, and developed authentication and authorization framework, including a sophisticated RBAC model for customizable role-based access control.
- Integrated with OIDC providers following OIDC specifications and JW* open standards.
- Provided guidance on security processes in development/deployment to meet IBM standards.
- Collaborated with OEMs (Noname, ImVision, Elastic Beam) to enhance API security.
- Engaged with customers to drive revenue and maintain competitive edge at conferences such as APIDays and RSA.

IBM - AIM DataPower, Cambridge/Littleton, MA
Security Architect/Engineer, August 2006 to 2018

- Architected, designed, and developed authentication and authorization framework, including a sophisticated RBAC model for customizable role-based access control.
- Integrated with OIDC providers following OIDC specifications and JW* open standards.

- Provided guidance on security processes in development/deployment to meet IBM standards.
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- Engaged with customers to drive revenue and maintain competitive edge at conferences such as APIDays and RSA.

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.
- Programmed and maintained Access Control List, Execution Control List, and Active Content Filter.

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.

Ohio State University, Columbus, OH
Software Engineer, March 1990 to May 1994
- Designed and maintained various applications including payroll, transcript, travel reimbursement, and traffic/parking systems.

Education
Bachelor of Science in Computer and Information Science
Ohio State University, Columbus, Ohio