PAWAN KUMAR JANBANDHU

Senior Security Architect

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SUMMARY

I am a seasoned IT professional with over 23 years of experience specializing in Information Security. I have a strong background in cryptography and cloud security, having led various successful initiatives in securing cloud applications and infrastructures. My published research has garnered recognition, establishing me as a pioneer in the development of biometric cryptosystems used in passwordless authentication. My collaborative approach and technical expertise have earned me multiple accolades, including three Shining Star awards. I have 10+ years of software development experience in Java, Python, C/C++ and JavaScript.

EXPERIENCE

Senior Technical Architect (Cloud Security)

Tavant Technologies Ltd

📅 10/2020 - Present 📍 Hyderabad, India

US based IT Service and product company

- Worked as Senior Cloud Security Architect for finance domain client Experian (USA)
- Improved CSPM by working closely with SRE team to secure cloud applications and infrastructure
- Architected and designed scalable and highly available security applications using JavaScript and PHP
- Implemented TOTP web application in cloud for generating token for login using virtual MFA for 110 AWS root accounts
- Migrated code signing application to AWS and integrated with HSM
- Created and configured Kali Linux instances using Terraform modules for cloud pentest of 60 prod AWS accounts
- Lead vulnerability management activities and reduced overall vulnerabilities count by 90% in 9 months
- Assisted in IAM roles rationalization and integration of security tools into CI/CD pipelines
- Implemented PoCs on AWS Nitro Enclaves and external KMS CMK key rotation and wrote python scripts for automation

Lead Security Engineer (Network Security)

Intertek

📅 09/2019 - 04/2020 📍 Mumbai, India

Global Quality Assurance company

- Enhanced network security compliance by leading a team of 6 engineers for Common Criteria testing
- Successfully qualified Cisco network devices for Common Criteria certification

Senior Module Lead (PKI, JAVA Application Security)

Avaya India Pvt Ltd

📅 05/2015 - 03/2018 📍 Pune, India

US based product company

- Worked as Application Security Lead implementing encryption and tracking vulnerabilities
- Provided secure coding guidance to development team of 35+ engineers and performed code review
- Helped Avaya to achieve JITC certification for the Aura product suite
- Presented talks on security vulnerabilities at OWASP sessions

KEY ACHIEVEMENTS

🗨️ **Pioneering Work in Biometric Cryptosystems**

Successfully built a biometrics based digital signature generation system cited in over 120 publications

✔️ **Multiple Recognitions for Excellence**

Achieved Shining Star award three times for contributions to customer's Cloud Security infrastructure

CERTIFICATION

AWS Certified Security – Specialty

Issued Oct. 2024

AWS Certified Solutions Architect - Associate

Issued Nov. 2021

IBM Infosphere Guardium Technical Mastery Test V2

Issued Sept. 2014

PUBLICATIONS

Novel Biometric Digital Signatures for Internet-based Applications

Information Management and Computer Security

PK Janbandhu, MY Siyal

📅 12/2001

🔗 http://www.emeraldinsight.com/10.1108/096852 20110408022

Modified Private Key Generation for Biometric Signatures

Proceedings of IEEE/WSES International Conference on Multimedia, Internet and Video Technologies, MIV Malta (Europe)

PK Janbandhu, MY Siyal

📅 09/2001

Designing a Parallel-to-Serial Port Adapter

Dr Dobb's Journal (USA)

PK Janbandhu

📅 02/2010

🔗 http://www.drdobbs.com/embedded/22310056 4

EXPERIENCE

Project Leader (Data Security, PKI and Biometrics Security)

Wipro Technologies Ltd

📅 03/2010 - 04/2015   📍 Bangalore, India

NASDAQ listed CMMI Level 5 certified IT Software Service Company

- Worked as PKI Subject-Matter Expert for leading clients
- Lead a team of 10 engineers on managed PKI projects and supported certificate management
- Reduced cost of digital certificates by 25% for clients by introducing SAN based certificates using OpenSSL

Technical Specialist (ITIL ver. 3)

Infosys Technologies Ltd

📅 04/2008 - 06/2009   📍 Pune, India

NASDAQ listed CMMI Level 5 certified IT Software Service Company

- Managed customization projects of HP Service Center software for ITIL Ver3
- Led a team of 10 engineers across two continents, ensuring high CSAT scores

Senior Software Engineer (C/C++ Development)

KPIT Cummins Infosystems Ltd

📅 01/2007 - 02/2008   📍 Pune, India

CMMI Level 5 certified IT Software Service Company

- Implemented Cryptographic Software Encryption Modules for various algorithms
- Received appreciation for outstanding delivery to client Renesas

Senior Software Engineer (C++ based 3G Mobile Applications)

Fortuna Technologies India Pvt. Ltd

📅 04/2004 - 01/2007   📍 Hyderabad, India

ISO 9001:2000 certified Software Product Company

- Developed complete 3G mobile phone applications for renowned clients using EMP platform
- Successfully launched multiple 3G phones in the European market

Software Engineer (PKI and JAVA Security R&D)

MBT Ltd

📅 05/2002 - 03/2004   📍 Mumbai, India

CMMI Level 5 certified IT Software Service Company

- Involved in implementation and configuration of PKI
- Worked on reviews and development of security protocols and algorithms

Research Scholar (Information Security)

School of Electrical and Electronic Engineering, NTU

📅 05/2000 - 04/2002   📍 Singapore

Research institute

- Conducted research into Internet Security focusing on biometrics and PKI
- Implemented biometrics based cryptography algorithms in JAVA
- Published multiple papers and proposed novel biometric digital signatures

Embedded Design Engineer

Celetron India Pvt. Ltd

📅 05/1999 - 04/2000   📍 Mumbai, India

OEM Company

- Member of core team involved in motherboard design for low-cost PC development

PUBLICATIONS

Implementing HTTPS for securing webservers

Wipro K-Net

PK Janbandhu

📅 06/2012

SKILLS

AWS Cloud   AWS Security   EC2

DevSecOps   PKI   AWS CLI

Cryptography   AWS KMS   AWS S3

Security Hub   GuardDuty

Auto Scaling   Data Security

Encryption   Application Security

Code Signing   Network Security

ECS   EKS   CloudTrail

CloudWatch   Biometrics   IAM

Authentication   Authorization

OAuth 2.0   MFA

Vulnerability Management   Python

C/C++   OOP   JavaScript   Java

Data Structures and Algorithms

Code Review   CIS Benchmarks

Terraform   Wiz.io   Confluence

JIRA   RESTful API   Kali Linux

Pentest   FIPS   SQL   Agile

Docker   PostgreSQL   JITC

Eclipse   Visual Studio Code   Git

Bitbucket   HSM   Networking

Mobile   Jenkins   OpenSSL

SAST   DAST   Threat Modeling

SSL/TLS   GitHub Co-Pilot   Gen AI

EDUCATION

Master of Engineering
Nanyang Technological University
📅 05/2000 - 04/2002   📍 Singapore

Bachelor of Technology
Indian Institute of Technology (IIT) Bombay
📅 08/1995 - 04/1999   📍 Mumbai, India

LANGUAGES

English
Proficient   ●●●●○

Hindi
Native   ●●●●●

Marathi
Proficient   ●●●●○