

JASON ROBERT DAVID SARIWATING

PRODUCT ENGINEER | ENTERPRISE SECURITY

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PROFESSIONAL SUMMARY

Product Engineer working at the intersection of software engineering and enterprise security, building cryptographic solutions, internal tools, and full-stack applications across HSM, PKI, key management, encryption, tokenization, automation, and data protection. Translates business and security requirements into maintainable products, deployment workflows, and documentation.

CORE EXPERTISE

Enterprise HSM & PKI | Key Management | Encryption & Tokenization | Product Engineering | API Integration Development | Automation

PROFESSIONAL EXPERIENCE

Product Engineer | PT i-Trust Data Teknologi Oct 2025 - Present
Indonesia

- Design, deploy, integrate, and support enterprise cryptographic security solutions using Entrust nShield HSM and Entrust Cryptographic Security Platform.
- Integrate HSM-based cryptographic services with customer applications, databases, and security infrastructure while validating key-management and key-lifecycle workflows.
- Troubleshoot HSM connectivity, PKCS#11, Security World, Linux, and deployment issues in production environments.
- Develop internal tools and automation for deployment, validation, testing, monitoring, and reporting.
- Create deployment guides, troubleshooting procedures, configuration records, and technical knowledge resources for engineering and customer-facing teams.
- Represented the company at the Entrust APAC Partner Bootcamp 2026 in Bali, presenting a customer success story and a live database-encryption demonstration.

Junior Product Engineer | PT i-Trust Data Teknologi Aug 2023 - Dec 2024
Indonesia

- Developed and supported product features across internal tools and customer-facing solutions in collaboration with cross-functional teams.
- Performed functional testing, debugging, troubleshooting, and customer deployment support to improve application reliability and outcomes.
- Created product documentation and evaluated technologies for product and solution development.

EDUCATION

Bina Nusantara University (BINUS) | Information Systems 2020 - 2025

SELECTED PROJECTS

CSP Tokenization Tool & Load Tester Enterprise Security Tool

- Built a Python Flask dashboard for secure authentication, dynamic policy loading, batch tokenization, duplicate filtering, concurrent load testing, TPS and latency reporting, and exportable results against Entrust CSP APIs.

Technology: Python, Flask, Entrust CSP, REST API, ThreadPoolExecutor, HTML, CSS, JavaScript

Personal Finance Management Application Completed Prototype

- Built a full-stack dashboard for budgeting, expense and debt tracking, savings progress, health scoring, visual analysis, and CSV export, with an Electron desktop shell.

Technology: React, Tailwind CSS, Node.js, Express, SQLite, Chart.js, Electron

CERTIFICATIONS

nShield Certified System Developer (nCSD) | Entrust Apr 2026

nShield Certified System Engineer (nCSE) | Entrust Dec 2025

Professional Course Certification | AppViewX Apr 2026

Foundational Course Certification | AppViewX Apr 2026

APAC Partner Bootcamp Ignite FY27 | Entrust Jun 2026

TECHNICAL SKILLS

Enterprise Security: nShield HSM, PKI, key management, encryption, tokenization, PKCS#11, Security World, data protection

Backend & APIs: Python, Flask, Node.js, Express, REST APIs, concurrent processing

Frontend & Product: React, Next.js, TypeScript, JavaScript, Tailwind CSS, Chart.js, HTML, CSS

Infrastructure & Data: Linux, Docker, VMware, PostgreSQL, SQLite, MySQL, MariaDB, Firebase, Windows

Engineering Tools: Git, GitHub, Vercel, VS Code, technical documentation, testing, troubleshooting

LANGUAGES

Indonesian: Native proficiency | **English:** Advanced proficiency