

Jean-Luc Williams

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Professional Summary

Solutions Architect with 6+ years of experience designing scalable cloud infrastructure, enterprise backend systems, and secure, data-driven architectures. Combining a Master's in Cyber Security (NSA CAE-CD) with a foundation in Cognitive Engineering, I specialize in aligning complex technical architecture with human-centered business objectives. Proven track record of strategizing with executive leadership to consolidate tech stacks, leading cross-functional engineering initiatives, and designing resilient systems capable of rapid disaster recovery. Passionate about transforming high-level business requirements into secure, high-performance, and maintainable enterprise solutions.

Technical Skills

Cloud Infrastructure & DevOps: AWS, Google Cloud (GCP), Microsoft Azure, Azure DevOps, Terraform, Docker, Git, GitHub Actions, Heroku Apps

Identity & Access Management (IAM), Security & Cloud Security: Okta, Auth0, Apigee X, Akamai, CloudFlare, BurpSuite, Ghidra, IPS Rule Writing, Kali Linux, OWASP Zap, Pwntools, Wireshark

Core Languages & Backend: Python, Java, Node.js, Golang, Dart, JavaScript, TypeScript, C, C++, Bash, Powershell, GraphQL, Apex (Salesforce)

Front-End & Web Platforms: React, Next.js, Flutter, HTML5, CSS3, TailwindCSS, WordPress, BigCommerce

Data & Tools: SQL, NoSQL, PostgreSQL, MongoDB, Google Firestore, Google Analytics, Jira, Postman, Confluence

Work History

Founding Software Engineer - Fletcher Jones Management Group

April 2025 - May 2026

- Built and led the company's first internal software engineering team, successfully transitioning ownership of a six-year Salesforce platform from external contractors.
- Enforced rigorous technical auditing of external vendor deliverables, establishing a culture of accountability and achieving immediate gains in system stability and code quality.
- Architected CI/CD pipelines via GitHub Actions, automating deployments across environments and providing the executive suite with transparent, real-time project visibility.
- Authored technical runbooks and deployment documentation that reduced onboarding time and standardized Salesforce deployments across 10 dealership locations.
- Strategized with the CTO to map the global technology landscape, defining the roadmap for enterprise-wide stack consolidation and infrastructure optimization.
- Maximized platform maintainability by implementing standardized documentation across Heroku applications and mission-critical Salesforce services.
- Optimized core Salesforce logic to recover over 5% of usage limits, improving system modularity and extending the life of current architecture.
- Directed production release cycles and UAT, maintaining a high-performance SLA with hotfixes typically deployed within hours of identification.

Software Engineer I, Customer Identity Team - MGM Resorts International

January 2022 - April 2025

- Developed and maintained identity management services, authentication pipelines, APIs, and networking components supporting guest account platforms using AWS, Azure, GCP, Okta, Apigee X, GraphQL, Java, Node.js, Python, and Dart.
- Transformed guest identity experiences, achieving a 27% increase in login success and a 25.7% boost in

account activation while eliminating major recurring guest-reported errors.

- Executed critical restoration tasks during an enterprise-wide security event, rebuilding core networking and service environments to facilitate total business recovery.
- Fortified cloud security by enforcing Apigee X gateways and developing robust deployment templates, ensuring comprehensive request tracking and hardened endpoint protection.
- Modernized Identity systems to ensure strict OAuth 2.0 compliance, guiding cross-functional teams through complex integration updates in a polyglot environment (Java, Node.js, Python, Dart).
- Developed high-performance Dart-based APIs for Google Firestore, enabling personalized user preference storage and tailored marketing offers.
- Automated large-scale account data reconciliation and CPRA compliance requests via custom processing scripts, streamlining data governance operations.
- Mentored engineers on troubleshooting methodologies, testing strategies, and secure development practices.

Webmaster - Largo Consulting Services, LLC

April 2020 – January 2022

- Spearheaded the full-lifecycle management (design, security, and optimization) of **11 client websites** on WordPress and BigCommerce platforms.
- Leveraged data-driven insights from Google Analytics and custom dashboards to consult with stakeholders on functional enhancements and user experience improvements.
- Hardened web systems through proactive threat monitoring and custom IPS rule development, ensuring sub-hour resolution for site bugs and vulnerabilities.
- Implemented SEO strategies to enhance website visibility and improve search rankings.

Education

New York University | MS in Cyber Security (GPA: 3.77)

NSA Center of Academic Excellence in Cyber Defense (CAE-CD) Certified

Rensselaer Polytechnic Institute | BS in Information Technology & Web Science

Concentration in Human-Computer Interface/Cognitive Engineering

Personal R&D and Systems Projects

Edibubble (*Flutter / Supabase / Dart*)

- Developed a cross-platform social networking application using Flutter and Dart, focused on high-performance mobile and web UI rendering.
- Designed and integrated a scalable backend utilizing Supabase (PostgreSQL), managing real-time data syncing, user authentication, and robust relational data schemas.

Stick-Champ Engine (*C# / Unity / Network State Logic*)

- Architected a custom 2-player arcade fighting game engine in C# and Unity, implementing deterministic rollback netcode to ensure zero-latency remote multiplayer synchronization.
- Engineered precise frame data syncing and input buffer prediction mechanisms, optimizing complex network state logic for a target Steam release.

Hardware Prototyping & Security Lab (*IoT / Electronics / 3D Printing*)

- Engineered physical IoT and hardware security systems, including the assembly, manual soldering, and configuration of a Slim Pwnagotchi for network auditing and experimenting.
- Designed custom CAD models for functional structural components, executed precision 3D-printing hardware upgrades, and prototyped complex multi-part physical assemblies.