

Wellington Fan

LEAD SOFTWARE ENGINEER — AWS-CERTIFIED SOLUTIONS ARCHITECT

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Lead Software Engineer and AWS-certified Solutions Architect with deep experience across full-stack development, data infrastructure, and large-scale distributed systems—leading teams on high-traffic services and building the internal tooling and monitoring that keeps operations efficient.

Skills

AI & Agentic Tooling LLM agents & tool-use design, Claude / Anthropic API, prompt engineering & evaluation

Languages & Frameworks Python, Go, PHP, JavaScript, React, Django, FastAPI

Data & Infrastructure DynamoDB, PostgreSQL, MySQL, MS-SQL, Redis, ETL, Data Modeling & Normalization, ORMs

DevOps & Cloud AWS, Docker, CI/CD, NGINX, Apache, Git, GitHub, LDAP, Active Directory

Methodologies Agile/Scrum, TDD, Monitoring & Alerting, Internal Tooling, Secure IAM

Experience

Lead Software Engineer, JPMorgan Chase

Jan 2026 – Present · NYC

- Lead the API Infrastructure team building foundational systems and microservices for the Co-Brand line of business, supporting a major card co-brand partnership launch.
- Created agentic AI skills for tracing and observability across the application, cutting instrumentation time from days to minutes.

Senior Software Engineer, Capital One

Oct 2024 – Oct 2025 · NYC

- Owned critical components of the API Gateway, supporting 10K+ TPS at 99.99% uptime.
- Defined and published the org standard for reporting application entitlements, roles, and permissions—with documentation, example artifacts, and a script that analyzes Gateway data and outputs compliant JSON.
- Presented to engineering peers on statistical alarm tuning—modeling response times as LogNormal and applying Poisson processes to cut false positives without losing sensitivity to true incidents.

Senior Software Engineer, PSYOP

Oct 2007 – Feb 2024 · NYC

- Engineered a unified identity system integrating on-prem Active Directory, Azure AD, and vendor platforms, sharply reducing provisioning overhead.
- Designed and maintained a distributed database for remote offices at 99.9% availability with fine-grained observability.
- Modernized legacy systems with data pipelines, secure APIs, and RabbitMQ pub-sub; built internal dashboards for ops, marketing, and finance that reduced dependence on IT.

Selected Projects

Production Forecasting Application. API integrating internal and external feeds for real-time resource forecasting; scenario modeling for Marketing & Finance stakeholders.

Financials Reporting System. ETL and replication pipelines unifying disparate financial systems into one warehouse; dashboards for budget, anomaly, and variance reporting.

IAM Tools. Extensible IAM services for access, policy enforcement, and auditing; pub-sub credential sync across systems in real time.

Application Licensing Tool. React frontend and backend automating license requests via Azure and Autodesk APIs—cutting IT intervention 80% and ensuring compliance.

Beyond Work

Canoed 340 miles of the Missouri River in under 55 hours · 200+ tabletop games in active rotation · hobbyist lockpicker · founder of PSYOP's Culture Club (Wafflefest, Board Game Nights, "Cocktails with Beef").