

Jordan Williamson

Python Architect

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SUMMARY

Hands-on **Python** Architect with 11 years building backend systems, cloud-native services, APIs, **microservices**, and business-critical integrations across Azure and AWS. Brings more than three years guiding architecture, leading distributed Scrum teams, and coordinating vendors through discovery, design, implementation, and delivery. Translates ambiguous business needs into clear technical requirements, service boundaries, delivery plans, and maintainable code. Practical experience spans FastAPI, Django, Flask, async Python, SQLAlchemy, Pydantic, Celery, pytest, AKS, EKS, Terraform, Bicep, **AWS CDK**, Kafka, **Azure Service Bus**, REST, event-driven systems, RAG, Azure OpenAI, LangGraph, React, Angular, and Mulesoft. Ready to bring sound technical judgment, empathy for business partners, and hands-on delivery energy to Northstar Risk & Benefits.

EXPERIENCE

Principal Python Architect

Cobalt Systems Group 📅 May 2023 - Present 📍 Denver, CO

Owns architecture for a multi-tenant claims and benefits integration platform, guiding discovery, backend design, cloud delivery, engineering standards, vendor coordination, and production readiness across distributed Scrum resources.

- Set **technical direction** for a multi-tenant claims and benefits platform by converting product, operations, and compliance discovery into service boundaries, API contracts, and phased delivery plans.
- Designed Python services with FastAPI, Pydantic, SQLAlchemy, Celery, and **async patterns** on Azure, using AKS, Azure Service Bus, API Management, Cosmos DB, and Azure SQL for resilient provider and client workflows.
- Led 11 engineers and two implementation vendors through architecture reviews, backlog decomposition, **coding standards**, peer reviews, and release readiness checkpoints, keeping **competing priorities** aligned.
- Introduced Kafka and **Azure Service Bus** event flows for policy, enrollment, and notification workloads, improving transaction traceability and isolating failures across external partner integrations.
- Built a governed RAG workflow with **Azure OpenAI** and LangGraph, adding prompt versioning, retrieval evaluation, human approval gates, and audit logging for employee-service use cases.
- Facilitated whiteboard workshops with business owners and domain experts, documenting tradeoffs in Confluence and decisions in Jira while balancing security, observability, cost, and delivery needs.

Lead Cloud Software Engineer

BluePeak Technology Partners 📅 January 2020 - April 2023 📍 Austin, TX

Directed cloud software delivery for customer onboarding, document exchange, broker workflows, and integration programs across Azure and AWS, combining architecture ownership with hands-on Python engineering and team leadership.

- Owned design and delivery of Python microservices for customer onboarding, document exchange, and broker workflows across Azure and AWS, shaping reliable APIs around business priorities.
- Reworked a Django and Flask monolith into **FastAPI** services with **SOLID principles**, repository patterns, contract testing, and API gateway controls, clarifying ownership and release sequencing.
- Provisioned repeatable infrastructure with Terraform, Bicep, and AWS CDK across AKS and EKS, pairing managed databases, SQS, serverless functions, logging, and health-based deployment controls.
- Established pytest, static analysis, and Git-based **CI/CD** practices in BitBucket, increasing release confidence through automated API, integration, contract, and asynchronous task coverage.
- Guided six engineers through Scrum planning, architecture reviews, **code reviews**, and delivery decisions across three client programs and a Mulesoft integration workstream.
- Delivered a **React** operations console backed by **REST APIs** and event subscriptions, giving service teams clearer visibility into integration status, failed messages, and recovery actions.

Senior Python Developer

Harborline Solutions 📅 June 2017 - December 2019 📍 Raleigh, NC

Built backend services for insurance administration and employee-benefits workflows, partnering with analysts, account managers, and product owners to turn business rules into dependable APIs, event processing, and release-ready technical work.

- Developed **Django** and **Flask** services with SQLAlchemy, PostgreSQL, Redis, and Celery for insurance administration and benefits workflows, supporting dependable processing for operational teams.
- Replaced batch partner exchanges with REST and event-driven APIs using idempotency keys, schema validation, retry policies, and structured error contracts, reducing avoidable transaction failures.
- Implemented **Kafka** producers and consumers for enrollment and document events, then added dashboards and replay procedures so support teams could recover messages safely.

- Partnered with analysts, account managers, and product owners in discovery sessions, converting business rules into **technical specifications**, acceptance criteria, and sequenced delivery tasks.
- Added **pytest** unit, integration, and contract suites to a **Git** CI/CD pipeline, catching schema and dependency regressions before releases reached shared environments.
- Supported a React administration interface and reviewed Java and C# integration code, resolving API, serialization, and authentication issues across language boundaries.

Python Software Engineer

Summit Digital Labs 📅 July 2015 - May 2017 📍 Columbus, OH

Developed Python services for customer account and document workflows while contributing across APIs, databases, AWS infrastructure, release automation, frontend support, and Scrum delivery for growing product teams.

- Built Python services for customer account and document workflows, moving from Flask endpoints toward Django applications with reusable domain and data-access components.
- Delivered **REST APIs** backed by PostgreSQL and MongoDB, documenting resource behavior, validation rules, authentication flows, and versioning expectations for consuming teams.
- Created **Celery** workers and scheduled document notifications with retry handling, structured logs, and pytest coverage for failure paths, giving operations clearer behavior during exceptions.
- Supported an **AWS** deployment using EC2, S3, RDS, and CloudFormation, separating application configuration from infrastructure and release automation for safer environment management.
- Implemented an **Angular** dashboard exposing processing queues and reconciliation exceptions, helping operations users act without direct database access.
- Participated in **Scrum** refinement, estimation, demos, and retrospectives while recording technical decisions and onboarding guidance in **Confluence** for smoother team ramp-up.

PROJECTS

Agentic Benefits Intake Pipeline 📅 2025

Created a governed Azure OpenAI and LangGraph workflow for benefits questions, combining RAG retrieval, prompt versioning, approval gates, evaluation steps, and audit records for responsible automation.

Cross-Cloud Event Integration Hub 📅 2022

Shaped a reference architecture linking Kafka, Azure Service Bus, and SQS with Python consumers, retry handling, observability, and infrastructure code for reliable partner event delivery.

LEADERSHIP & AWARDS

- Engineering Excellence Award, Cobalt Systems Group, 2025; recognized for clear architecture leadership and dependable delivery across teams.
- Cloud Architecture Innovation Recognition, BluePeak Technology Partners, 2022; honored for practical Azure and AWS modernization work.
- Technical mentor for distributed Python engineers, Cobalt Systems Group; coached peers through design reviews, delivery choices, and career growth.

EDUCATION

Bachelor's Degree in Computer Science

Ohio State University 🎓 GPA: 3.7 📅 2015 📍 Columbus, OH

Coursework: Software Design, Database Systems, Cloud Computing, Distributed Systems, Artificial Intelligence

CERTIFICATIONS

- AWS Certified Solutions Architect - Professional 📅 2022
- Microsoft Certified: Azure Solutions Architect Expert 📅 2023
- HashiCorp Certified: Terraform Associate 📅 2021

TECHNICAL SKILLS

- **Python Frameworks:** FastAPI, Django, Flask, Celery
- **Python Data Tools:** SQLAlchemy, Pydantic, pytest
- **Cloud Platforms:** Microsoft Azure, Amazon Web Services, Azure OpenAI
- **Container Platforms:** AKS, EKS, Docker
- **API Technologies:** REST, API Management, API gateways
- **Messaging Systems:** Kafka, Azure Service Bus, Amazon SQS

- **Infrastructure as Code:** Terraform, Bicep, AWS CDK
- **Databases:** Azure SQL, PostgreSQL, MongoDB, Cosmos DB
- **AI Engineering:** RAG, prompt engineering, LangGraph, OpenAI
- **Source and Delivery:** Git, BitBucket, CI/CD, static analysis
- **Frontend Frameworks:** React, Angular, JavaScript
- **Architecture Methods:** Microservices, distributed systems, serverless
- **Integration Platforms:** Mulesoft, REST integration, event streaming
- **Development Methods:** Agile, Scrum, contract testing
- **Work Management:** Jira, Confluence, technical specifications

SKILLS

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|-----------|----------------|-----------------|-------------|
| • Python | • Async Python | • pytest | • REST APIs |
| • FastAPI | • SQLAlchemy | • Azure | • RAG |
| • Django | • Pydantic | • AWS | • Scrum |
| • Flask | • Celery | • Microservices | |

PROFESSIONAL AFFILIATIONS

- Volunteer facilitator, Denver Python Community architecture workshops; creates open conversations around backend design and practical cloud decisions.
- Python community mentor; connects engineers with approachable guidance on testing, APIs, async patterns, and production support.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST