Brett Schwarz

Certified Senior Cloud Architect & Software Engineer with experience leading cross-functional teams, architecting large-scale cloud applications, and delivering end-to-end solutions. Proven record of architecture leadership, global team collaboration, and delivering cost-efficient cloud architectures.

Seattle, WA 98144
(425) 466-1731
brett.schwarz@gmail.com
https://bschwarz.github.io

EXPERIENCE

Senior Cloud Application Architect - *Amazon Web Services,* Seattle

February 2021 - PRESENT

AWS Professional Services - assisting customers with planning and executing solution build-outs on AWS, balancing technical design with business needs:

- Directed a 10-person core engineering team, plus 15+ cross-functional contributors, to build a multi-tenant Smart Home platform using microservices architecture (over 120 scalable RESTful API operations) and blue/green deployments, supporting millions of devices.
- Led end-to-end application development for a Smart Devices platform, overseeing API design, secure authentication/authorization flows, mobile push notifications, and real-time communication via WebSockets.
- Architected and led a telecom-scale frontend and identity solution, delivering a secure authentication/authorization system in compliance with strict enterprise security requirements, while facilitating collaboration between US and APAC engineers.
- Implemented a cloud-native workflow engine using AWS services, enabling orchestration and automation of critical business processes.
- Automated testing and defect tracking for a major mobile operator by building a cloud-based data ingestion system with RESTful APIs and AWS services, supporting future ML initiatives.
- Created a full-stack, web-based internal API management tool using AWS services, improving API lifecycle control and developer efficiency.

Principal Engineer - *AT&T*, Redmond

June 2015 - February 2021

- Managed stakeholder alignment across product, design, and engineering to successfully deliver a distributed ML platform with containerized microservices, REST APIs, cloud-native data stores, and a web application.
- Migrated the entire ML platform to Microsoft Azure, improving system scalability and reducing infrastructure spend.
- Established enterprise-wide REST API best practices as part of AT&T's internal standards team. Led design reviews and drove adoption of enterprise API standards across hundreds of services.

SKILLS

Architecture & Design

Microservices, Domain-Driven Design, Asynchronous Job Infrastructure, API Lifecycle Management

AWS Services

Lambda, DynamoDB, APIGW, EventBridge, SQS, S3, CloudFront, SNS, SES, StepFunctions, AWS IoT, WAF, Cognito, QuickSight

Azure Services

AKS, DevOps, Cosmos DB, Key Vault, Blob Storage

Web Development

HTML5, CSS, JavaScript, Svelte, React, jQuery, Angular, Express, Flask

Software Languages

Python, JavaScript/TypeScript, Node.js, Tcl/Tk, C, Java, shell

Software Technologies

CDK, SAM, CloudFormation, Git, GitHub, CodeBuild, CodePipeline, Jenkins, Kubernetes, Docker, Terraform, Packer

Datastores

DynamoDB, MongoDB, PostgreSQL, SQLite, MySQL, Oracle, Cosmos DB

Solution Architect - *Sentaca*, Redmond

June 2011 - May 2015

- Delivered high-satisfaction API solutions by collaborating with internal architecture teams and external enterprise customers, aligning design with performance and business requirements.
- Represented API products at tech conferences and hackathons, educating users through demos and technical presentations—boosting platform adoption.
- Deployed and tested highly available, scalable APIs across AT&T Cloud and AWS environments, ensuring sub-second response times and production readiness.
- Introduced and implemented a new API documentation system leveraging OpenAPI and automation tools, decreasing delivery timelines by 30% and improving internal Developer Experience.

Senior Engineer - *AT&T*, Redmond

October 2010 - June 2011

- Headed the performance testing efforts for the messaging platform, including authoring test cases, test case execution, and managing defects.
- Mentored team members on mobile and IT networks by holding periodic workshops and consulting on various projects.
- Developed software tools for automation, testing, and troubleshooting.

Senior Engineer - *T-Mobile*, Bellevue

May 2010 - October 2010

- Designed, engineered, and supervised subscriber-based mobile network elements.
- Successfully led the engineering team on a complex (total replacement) subscriber migration across the entire network.
- Developed tools to streamline the implementation and troubleshooting of services.

Technical Sales/Senior Systems Engineer - *Alcatel-Lucent*, Bellevue

November 2005 - September 2009

- Supported the sales team in securing a major strategic win, earning the highest-ranking sales engineer status.
- Delivered technical support to the sales team for product presentations and consultations with customers up to the VP level.
- Improved network performance by 10% while leading the performance optimization customer team.
- Developed an internal web-based reporting tool (ETL, server, and client-side) to reduce turnaround time and increase the accuracy of statistics reporting.

CERTIFICATIONS

AWS Certified Solutions Architect - Professional

AWS Certified Solutions Architect - Associate

AWS Certified Machine Learning - Associate

AWS Certified Security Specialty

AWS Certified Developer - Associate

AWS Certified AI Practitioner

AWS Certified Cloud Practitioner

Microsoft Certified: Azure Fundamentals

PUBLICATIONS

Asterisk Open-Source PBX System - Linux Journal February 2004

Hacking Red Hat Kickstart Linux Journal – April 2003

NATURAL LANGUAGES

- **English** - Native
- **Spanish** - Intermediate
- **Japanese** -Elementary
- **Mandarin** - Elementary

EDUCATION

BS Mathematics & BS Electrical Engineering (Honors) - University of Toledo