

# Brett Schwarz

Software developer and cloud engineer with extensive experience and knowledge of mobile, cloud architectures, and smart homes. Experienced in product, service, and software life cycles, and customer engagement

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## EXPERIENCE

### **Amazon Web Services, Seattle — Senior Cloud Application Architect**

February 2021 - PRESENT,

- Led an application development team for a custom Smart-Home platform to manage millions of devices by developing microservices, custom onboarding flows, and custom authentication/authorization using AWS services.
- Spearheaded authentication and authorization design for a telecom project entirely within a private network, reducing security exposure using AWS services.
- Led a team to design and build a web portal for a large mobile operator, which increased usability for managing an ORAN network.
- Led a large multi-tenant Smart-Home project with 10 direct reports and 20+ dotted line engineers, delivering 120+ API operations using AWS microservices and a blue/green deployment model — delivering the solution ahead of schedule.
- Designed and built a cloud architecture workflow system using AWS services and custom applications with RESTful APIs.
- Developed automation for a mobile operator's testing platform using AWS and machine learning, reducing defect resolution time by an estimated 50%.
- Designed and developed an internal web-based API management tool (full stack) that integrates into existing systems. Developed a custom application with an event-driven architecture using AWS services.

### **AT&T, Redmond — Principal Engineer**

June 2015 - February 2021

- Assisted in the development and the architecture of the machine language platform, consisting of multiple microservices with REST APIs, data stores, and a web application.
- Migrated the machine language platform to Azure (AKS, DevOps, Storage, Key Vault, Cosmos DB) to decrease costs and improve scalability.
- Established best practices for REST web services across all of AT&T as a member of the internal standards team.
- Oversaw and improved API design, security, and privacy for externally exposed APIs as the lead SME of the API governance team.

## SKILLS

### Web Services

REST, OpenAPI (Swagger), OAuth 2.0, JSON Schema, HTTP/1.1, HTTP/2, XML, RAML

### AWS Services

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

### Network Architecture

Mobile Networks, IT Networks, Smart-Homes

### 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, CodeCommit, CodePipeline, Jenkins, SonarQube, Kubernetes, Docker, Terraform, Packer

### Datastores

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

## **Sentaca, Redmond— *Solution Architect***

June 2011 - May 2015

- Achieved high customer satisfaction by ensuring optimal API solutions by collaborating with customers and internal architecture teams.
- Promoted API solutions at conferences and hack-a-thons by educating and demonstrating to customers the solution's capabilities.
- Deployed and tested API solutions requiring high availability, scalability, and low latency into cloud services (AT&T Cloud and Amazon AWS).
- Implemented a new API documentation system which reduced delivery time by 30%.

## **AT&T, Redmond— *Senior Test Engineer***

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 of APIs.

## **T-Mobile, Bellevue— *Senior Engineer***

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.

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

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 to 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**  
[Certificate Badge](#)

**AWS Certified Solutions Architect - Associate**  
[Certificate Badge](#)

**AWS Certified Developer - Associate**  
[Certificate Badge](#)

**AWS Certified AI Practitioner**  
[Certificate Badge](#)

**AWS Certified Cloud Practitioner**  
[Certificate Badge](#)

**Microsoft Certified: Azure Fundamentals**  
[Certificate Badge](#)

## **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
- **German** - Elementary
- **Mandarin** - Elementary

## **EDUCATION**

**BS Mathematics & BS Electrical Engineering (Honors)** - Univ of Toledo

