

Jason Alvin Wu

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EXPERIENCE

SONY PICTURES ENTERTAINMENT

Culver City, CA

Senior Cloud Ops Engineer

July 2019 – Present

- Implemented enterprise multi-cloud landing zone/control tower frameworks from the ground-up in AWS, Azure, GCP, and OCI to establish enterprise-ready identity management, network segmentation, guardrails and policy enforcement, and baseline security as a product offering.
- Developed self-service account vending machines to automate the provisioning of standardized, compliant cloud accounts for the aforementioned LZ framework.
- Designed centralized image pipelines to distribute production-grade CIS-hardened Linux images to the portfolio with security and observability agents including creation and management of private repositories per distro.
- Built internal developer platforms and APIs to unify integrations with Github, Terraform, Okta, ServiceNow, and other third-party libraries used across the team. The APIs formed the foundation of our service offerings.
- Managed hybrid connectivity between on-premise datacenters and private cloud environments, overseeing IP address management, transit gateway architectures, and network segmentation strategies.
- Provided technical leadership in defining infrastructure standards and modernizing development workflows, driving adoption of GitOps, CI/CD, and IAC into engineering practices.
- Managed FinOps platforms such as Apptio, Cloudability, and Finout to provide telemetry and forecasting to finance managers and shared cost distribution and chargeback for customers.
- Architected identity management across Sony Pictures and its subsidiaries via Okta, governing access to intranet systems, internal tools, and CSP access. Built persona-driven access models to standardize entitlement management across application teams.
- Owned and maintained cloud security posture management tools such as Wiz and Prisma alongside native cloud services). Developed workflows to streamline visibility into findings to application teams and effectively remediate issues.

NBC UNIVERSAL

Studio City, CA

Software Engineer

June 2016 – July 2019

- Automated and optimized developer workflows across CI/CD pipelines, monitoring, testing, and deployments. Designed scalable microservice deployment pipelines using Docker and AWS services with auto-scaling and high availability configurations.
- Migrated the on-premise datacenter infrastructure into a cloud-native AWS architecture and reduced infrastructure overhead costs by 70% annually.
- Re-architected and modernized the CMS, content API, and authentication/authorization layer with Docker, GraphQL, and secure identity integrations (SAML, JWT, LDAP, Spring Security).
- Managed the content management platform powering the site content, reworking the monolithic infrastructure into microservices and delivered through red/black deployments to minimize downtime and risks.
- Enhanced backend systems for desktop and mobile platforms, rewriting legacy components into modular templates and widget features to support major site rebrand initiatives, delivered via blue/green deployments.

LOS ANGELES DUPLICATION & BROADCASTING

Burbank, CA

Jr. Systems Administrator/Developer

February 2013 – June 2016

- Developed and deployed internal PHP and Python applications, including the extension of ownCloud to centralize user access control and implement auditable management workflows.
- Engineered monitoring and analytics pipelines using Elasticsearch, Logstash, and Kibana for monitoring firewall and domain activity.
- Performed quarterly and annual ISO 27001 and ISO 9001 security and quality checks on IT systems.
- Built and maintained a petabyte-scale SAN, deploying high-availability services across our virtual environment on VMWare ESXi.
- Designed and automated media processing workflows for the New Media department to streamline large-scale media duplication to LTO5 and Aspera.
- Developed an in-house screeners platform via MongoDB, Express, Angular, and Node.JS for automating transcoding into secure, streamable formats and delivering protected content to clients with safeguards.

ARRDUDE CREATIVE SOLUTIONS

Monrovia, CA

Developer/Mentor

July 2011 – March 2024

- Led product design and system architecture for a high-availability data synchronization service supporting web and mobile clients using a proprietary XML synchronization engine built on Java servlet technology, Spring, Velocity e-mail templating, and SQL Server.
- Developed cross-platform client applications using HTML5, Android, and AngularJS, delivering responsive user experiences across web and mobile environments for a variety of consumer-facing businesses.
- Customized and extended Redmine for domain-specific building information management suite using Ruby on Rails, AngularJS, and Material Design Lite.
- Modeled and implemented a flexible inventory system using NodeJS and MongoDB and automated system information retrieval via bash scripts
- Partnered in requirements gathering, technical design documentation, and client negotiations, translating business needs into scalable technical solutions.

- Mentored junior engineers and interns, fostering technical growth through code reviews, architecture discussions, and collaborative development practices.

EDUCATION

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
Bachelor of Science in Computer Information Systems

Pomona, CA
2011 - 2016

CERTIFICATIONS

- Okta Certified Professional
- Okta Certified Administrator

TECHNICAL SKILLS

- Languages: Python, Java, Javascript, Typescript, HTML, CSS, PHP, Ruby, HCL, Bash
- Databases: MySQL, MongoDB, Aurora, PostgreSQL, GraphQL, SQL Server, LDAP, DynamoDB, RDS, CosmosDB, BigQuery
- Cloud: AWS, Azure, GCP, OCI, Landing Zones/Control Tower, Cloud Governance
- IAM: Okta, SAML, OIDC, OAuth, RBAC, Personals, ActiveDirectory
- IAC & Automation: Terraform, HCL, CodeBuild, CodeDeploy, Bamboo, Jenkins, SVN, Green/Blue + Red/Black Deployments
- DevOps: Docker, Microservices, Auto-scaling, CodeBuild, CodeDeploy
- Security: Wiz, Prisma, Splunk, CIS, ELK Stack, ISO27001, ISO9001
- FinOps: Finout, Cloudability, Apptio, Cost Allocation, Shared Cost Distribution, Forecasting, Budget Governance