Bijan Vakili
Solutions Architect & DevOps Lead

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Summary

- Passion For Helping People Through Technology
- 15+ Yrs Software Engineering Expertise
- 10+ Yrs Lead Full Stack Experience

Overview

Solutions Architect & Cloud DevOps Lead — 2022 – 2024
Public Oncology-Focused Biotech Company — Remote/CA/DC
Led two engineers embedded in fast-paced Discovery Bioinformatics group
- Managed AWS resources >$100K/yr, in line w/ Cloud Principles, GxP, IaC
- Bridge gap between engineers and bioinformaticians via virtuous cycle
- Daily engagement w/ Sr Director of Discovery Bioinformatics and team
- Develop product used by dozens of Biologists for analysis, visualizations
- Enable internal and confidential classified data sharing across org
- Help hit yearly target identification pipeline quotas within first quarter

Platform Architect & DevOps Lead — 2007 – 2022
Multiple Projects — Remote/CA/DC/MD/OH/OR/TX/UT/VA
Setup AR lab; multi-cloud AI capabilities platform w/real-time video
- Fully automated deployments to cloud & mobile devices/wearables
Author of SecDevOps process/guide at Customs and Border Patrol (CBP)
- Modernized web apps and their CI/CD from on-prem to AWS
- Improved SSO; 5M+ calls/day; 10k+ global users; 24/7 call rotation
Led 9-member agile team at Citizenship and Immigration Services (CIS)
- Continuous engagement with multiple global stakeholders, FOD, NSC
- Developed N-400 MilNatz and N-600/K product lines
- Modernized PCQS interface; 10-100k calls/day in AWS peered VPC
- Improved oath ceremonies via QR code decoder microservice & USDS
- Daily multi ZDD to PROD; maintain 17+ environments, 600+ toggles
- Developed enhanced, beta tested interview software for N-400
End-to-end software lifecycle experience, mostly in healthcare sector.
- Projects include AHA SmartMarket, DOL Medical Bill Processing, and
  NOAA NRDA Deepwater Horizon Project, Liferay (Open Source), as well
  as others.

Education

B.Sc. in Computer Science — Graduated 2008
University of Virginia — Charlottesville, VA

Study Abroad — Fall 2007
Tsinghua University — Beijing, P.R.C.

Capabilities

- Architecture & Leadership
- Cloud Modernization
- Product Engineering

Skills

- **AI / ML**
Amazon Bedrock & SageMaker, Chatbots, LangChain, Ollama, OpenAI

- **Architecture / Cloud**
AWS, Azure, Data, Design, Discovery, Event-Driven, GCP, Serverless, SOA

- **Certifications**
AWS Dev Assoc   DVWFK6C2PEBE19SV
AWS Sol Arch Pro FG18BPPLE1EE1F3X
Certified Java SCJA   259274625
K8s Cert Admin   LF-ih10o4kbs4

- **Data Engineering**
Dash, Dask, ETL, No/SQL, Pandas

- **Full Stack Development**
Apache, APIs, Authentication, Backend, BDD, C#,DCOS, Docker, Flask, Frontend, Java, Jupyter, JS/TS, Mobile, Networking, Node.js, Plotly, Python, React, SSO, TDD, UI, Unix, Web

- **Methodologies**
Agile, Kanban, Lean, OKR, SAFe, Scrum

- **SecDevOps**
AppD, Ansible, Atlantis, AquaSec, Bamboo, Bash, ChatOps, CF, CI/CD, CloudWatch, Fastlane, Fortify, GitHub, GitLab, Jenkins, JIRA, K8s, NewRelic, NVD, OWASP, Selenium, SonarQube, Splunk, Terraform / tfsec / trivy

Awards

- DHS USCIS ELIS Excellence — 2018
- Liferay Contributor of Year — 2015
  2014
- Northrop Grumman Timely — 2009