Bijan Vakili

Solutions Architect & DevOps Lead

Washington, DC • bvakili.com • resume-w@mail.bvakili.com • (202) 699–8519

Summary

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

Capabilities

- Architecture & Leadership
- Cloud Modernization
- Product Engineering

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.

Skills

- **AI / ML**
  Amazon Bedrock & SageMaker, Chatbots, LangChain, Ollama, OpenAI
- **Architecture / Cloud**
  AWS, Azure, Data, Design, Discovery, Event-Driven, GCP, Serverless, SOA
- **AWS Certs**

Dev Assoc	DVWFK6C2PEBE19SV
Sol Arch Pro	FG18BPPLE1EE1F3X
Data Engineer Spec	*ETA March 2024*
ML Spec	*ETA March 2024*

- **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

Education

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

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

Awards

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