PREMKUMAR MASILAMANI

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SOFTWARE / CLOUD / SOLUTIONS ARCHITECT

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Software Architect • Cloud Architect • Solutions Architect • Engineering Manager
System Design and Architecture • Cloud Infrastructure Management • Team Management
Co-Founded a Startup • GCP Professional Cloud Architect • AWS Solutions Architect
Cloud-native Solutions • Building high-performing teams • Solving Complex Problems

WORK EXPERIENCE

Currently on a planned career break for personal development, returning to the workforce now

Sibros Technologies, San Jose, CA   **Feb 2020 - Nov 2023**
Software / Cloud / Solutions Architect
- Designed and implemented cloud infrastructure using Infrastructure as Code (IaC), enabling scalable and secure deployment of the Sibros Cloud Platform across AWS and GCP
- Developed core libraries and cloud-native microservices, creating customized environments for enterprise customers, improving deployment efficiency
- Managed the public API, ensuring up-to-date documentation and collaborating with customers to implement complex workflows, improving customer satisfaction
- Led the design and implementation of ODX, enabling remote diagnostics for millions of vehicles and reducing diagnostic downtime
- Established a Solutions Architecture team, driving customer engagement and prototyping solutions, contributing to a significant increase in deals
- Built and mentored a global team of backend and infrastructure engineers, enhancing platform security & scalability and reducing incident resolution time

Helix RE, Inc., San Mateo, CA   **Oct 2017 - Feb 2020**
Co-Founder + Software / Cloud Architect
- Co-founded Helix RE, scaling the platform to achieve $1.5M in revenue within three years
- Architected and implemented cloud infrastructure using IaC, enabling seamless scalability and reducing operational costs
- Designed a serverless solution on Kubernetes, enabling parallel processing of 75 GB workloads to process multi-billion point clouds.
- Developed geometry generation pipelines using Autodesk Forge API and Revit Plugins, reducing 3D model creation time from 8 weeks to 5 days
- Designed streamable PDAL pipelines and an automated deviation detector for 3D models, cutting QA effort by 20% and reducing round trip between the BIM modelers.

- Containerized Hadoop and Spark components using Docker, deploying them on GKE and optimizing resource utilization of in-house servers **(Ericsson, US)**
- Designed, developed, and deployed Spring Boot-based REST APIs as microservices on AWS, automating infrastructure provisioning using Ansible and CloudFormation to reduce deployment time and improve system scalability **(TESCO, UK)**
- Optimized the insurance enrollment pipeline, achieving an 8x speed improvement, and led the migration of 350+ applications to IBM WAS, ensuring zero downtime **(Legal & General, UK)**
- Developed a custom REST framework for the first AMEX iPhone app, delivering 12 APIs and contributing to its 4.9-star rating **(American Express, IN)**

EDUCATION

ENGINEERING DEGREE
Bachelors in Computer Science, Madras University, India   **2004**

CLOUD CERTIFICATIONS
AWS Certified Solutions Architect - Associate ([credentials](#))   **2017**
Google Cloud Certified - Professional Cloud Architect ([credentials](#))   **2018**

COURSERA SPECIALIZATIONS
Architecting with Google Compute Engine ([credentials](#))   **2018**
Developing Applications with Google Cloud Platform ([credentials](#))   **2018**
Architecting with Google Kubernetes Engine ([credentials](#))   **2019**
Programming with Google Go ([credentials](#))   **2020**

TECHNOLOGIES

Programming: Rust, Go, Python, Java, SQL
Cloud: AWS, GCP, Terraform, Kubernetes, Docker
Databases: PostgreSQL, Neo4J, Couchbase
Tools: Jenkins, Ansible, Concourse CI, Spinnaker
Best Practices: Clean Code, Design Principles, Cloud Native Microservices

Premkumar Masilamani