# PREMKUMAR MASILAMANI

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**SOFTWARE/CLOUD ARCHITECT**

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Senior Software Architect • Senior Cloud Architect • Senior Solutions Architect
Strategic IT Leadership • Scalable Enterprise Solutions • HandsOn Development
Co-Founded a Startup • Developed homegrown Serverless Solution • Graph Data Modeling
GCP Professional Cloud Architect • AWS Solutions Architect • AI Enthusiast • Problem Solver

## WORK EXPERIENCE

**Helix RE, Inc., San Mateo, CA**                                    **Oct 2017 - present**
  **Co-Founder + Software/Cloud Architect**
- Co-founded the Helix RE platform & grew from inception to over $1.5m realized revenue
- Architected & Implemented the Cloud Infrastructure for the Helix RE platform as Code
- Created a Serverless Solution on Kubernetes to process huge parallel workloads (75 GB)
- Built a Windows Kubernetes Cluster with VMs, when a managed service was not available
- Implemented Geometry Generation pipelines to create, preview 3D models, leveraging Autodesk Forge API & Revit Plugins
- Architected Streamable PDAL pipelines for consistent processing of multi-billion point clouds with zero failures
- Automated Deviation Detector for 3D models reducing the QA efforts significantly
- Co-created an open data model to represent the buildings as graphs in the Graph Database

**Ericsson, Santa Clara, CA**                                        **Apr 2017 - Oct 2017**
  **Cloud Architect (Consultant)**
- Dockerized Big Data Components (Hadoop, Spark) and deployed in Kubernetes (GKE)
- Researched Ontology-based Knowledge Graph of the networking components
- Developed Sparkflow nodes with StanfordNLP to infer info from existing text dumps

**TESCO PLC, Welwyn Garden City, United Kingdom**                    **Aug 2015 - Feb 2017**
  **Software/Cloud Architect (Consultant)**
- Automated AWS infrastructure management using Ansible and CloudFormation.
- Developed spring boot based REST APIs deployed as microservices to AWS EC2.
- Improved the efficiency of van scheduling for the same day, one-hour delivery slots
- Coached the team on Clean Coding principles and Test-Driven Development

- Designed and implemented the Email Campaigns, Drip campaigns, Automations in Salesforce Marketing Cloud **(Salesforce, UK)**
- Improved the regular event processing (REP) pipeline by 8x times which allowed auto-enrollment of more customers in Insurance policies **(Legal & General, UK)**
- Led the IBM WAS Migration project for 350+ applications across all verticals, requiring cross-functional coordination across multiple teams **(Legal & General, UK)**
- Developed a fully functional Blackberry App as a POC for American Express using the live production data **(American Express, IN)**
- Developed a custom REST framework on FrontServlet framework to implement 12 REST APIs for the first AMEX iPhone app (4.9 stars) **(American Express, IN)**
- Led the AMEX Mobile website internationalization project for 16 countries, with a distributed development and QA teams **(American Express, IN)**

## EDUCATION

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

### 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**

### TECHNOLOGIES

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**Languages:** Java, C#, Python, Bash Script, JavaScript, SQL, N1QL, HTML, XML, YAML, JSON, Ansible, Terraform, Cypher **Frameworks:** Spring Boot, Hibernate, SOAP, REST
**Databases:** Neo4J, PostgreSQL, Couchbase **Cloud:** Amazon Web Services (AWS), Google Cloud Platform (GCP) **Products:** Docker, Kubernetes, Git, GitHub, Nginx, Jetty, Tomcat, Maven, Gradle, Jenkins, Concourse CI, Spinnaker, Jmeter, Splunk, AppDynamics, Adobe AEM, Salesforce Marketing Cloud **Best Practices:** Clean Code, Design Patterns, Design Principles (SOLID), Test Driven Development (TDD), Microservices Architecture, Service Oriented Architecture

*Premkumar Masilamani*