**Lijo Kattuvallil Gervassis**

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# Professional Summary

Pragmatic engineer with a proven track record of designing, implementing, and operating scalable and reliable infrastructure across Cloud and On-Premises environments. Proven expertise in Azure, AWS cloud services, CI/CD pipelines, and Infrastructure as Code, multi-region deployments, Kubernetes, and cloud automation tools. Adept at enhancing system reliability and performance, with a focus on automation and security best practices to achieve operational success in both startup and corporate environments.

# Professional Experience

## Senior Site Reliability Engineer Harleysville, PA

*Tata Consultancy Services Ltd*  May 2022 – Present

*Key Skills:* Azure, Terraform, Kubernetes, Docker, Prometheus, Grafana, Datadog, Python, Bash, Next.js, TypeScript, Tailwind CSS, PowerShell, JIRA, ServiceNow, GitLab, MongoDB

*Client: Refinitiv US LLC- An LSEG business*

* Transitioned on-premises applications to Azure, enhancing scalability and reliability
* Implemented Terraform for Infrastructure as Code with Key Vault for secrets.
* Designed GitLab CI/CD pipelines with Helm Charts for Azure Kubernetes Services by improving deployment efficiency.
* Orchestrated monitoring and alerting systems using Prometheus, Grafana, and Datadog for KPIs to ensure stability and system health.
* Implemented HA Proxy load balancer for efficient traffic routing.
* Led disaster recovery planning, validating RTO and RPO compliance.
* Managed incident response, playbook development by enforcing SLIs, SLOs, SLAs.
* Participated in Change Advisory Board (CAB) meetings to review proposed changes.
* Conducted knowledge sharing, mentorship sessions with fellow team members.

## DevOps Engineer Eagan, MN

*Tata Consultancy Services Ltd*  Jul 2020 – May 2022

*Key Skills:* Azure, AWS, Docker, Terraform, Puppet, Microservices, Node.js, Unix/Linux, Git

*Client: Refinitiv US LLC- An LSEG business*

* Containerized applications for cloud migrations, enhancing deployment flexibility.
* Orchestrated CI/CD for microservices on AWS, improving operational support.
* Provisioned EKS clusters with Terraform, streamlining control plane management.
* Enhanced security by integrating standards into DevSecOps CI/CD pipelines.
* Implemented cross-region disaster recovery strategies, ensuring data resilience.
* Engineered Wide IP/DNS based load balancer solution for the REST API endpoints.
* Managed SSL/TLS private keys and certificates for securing applications.

## SRE Architect Eagan, MN

*Tata Consultancy Services Ltd*  Aug 2017 – Jul 2020

*Key Skills:* AWS, Splunk, ELK, Puppet, IAM, Java, Python, PostgreSQL, React.js, Node.js, Git

*Client: Thomson Reuters Inc*

* Designed AWS migration strategy for legacy IAM solutions to Ping Identity SSO by enhancing security and efficiency.
* Integrated security testing into CI/CD pipelines, automating policy enforcement.
* Adopted Splunk for centralized logging, improving intrusion detection.
* Reduced MTTR by 50% through improved incident management processes.
* Implemented chaos engineering practices, boosting system resiliency

## Site Reliability Engineer Bangalore, India

*Tata Consultancy Services Ltd*  Feb 2014 – Aug 2017

*Key Skills:* IAM, MFA, Python, PERL, Python, MSSQL, Reac.js, Java, Jenkins, SVN

*Client: Thomson Reuters Inc*

* Managed IAM platform operations, ensuring stability and performance.
* Implemented MFA for SSO solutions, enhancing security.
* Conducted code/network level debugging to resolve escalated issues.
* Led technical recovery calls, providing root cause analysis.
* Automated data extraction processes using Python, improving efficiency.

## Front End Engineer Bangalore, India

*Tata Consultancy Services Ltd*  May 2011 – Jan 2014

*Key Skills:* LAMP Stack, PHP, Node.js, JavaScript, Python, REST APIs, YUI, Git

*Client: Yahoo!*

* Engineered Location widget by enhancing user experience with responsive design.
* Collaborated with Yahoo! properties to integrate location APIs.

## Full Stack Engineer Bangalore, India

*BizHobNob*  Mar 2010 – Apr 2011

*Key Skills:* LAMP Stack, PHP, MySQL, jQuery, Git

* Engineered platform from scratch, participating in all stages of product lifecycle.
* Designed UI interfaces with AJAX functionalities, improving user interaction.

## Full Stack Engineer Kerala, India

*iWeave Systems*  Oct 2006 – Feb 2010

*Key Skills:* LAMP Stack, PHP, CakePHP, Python, MySQL, REST APIs, JavaScript, CSS, SVN

* Collaborated with product owner to design user-facing products.
* Implemented REST APIs, enhancing backend integration.

# Education

Bachelor of Technology in Computer Science and Engineering Kottayam, Kerala, India
Mahatma Gandhi University Jun 2002 – Jun 2006

# Certification

Microsoft Certified: [Azure Fundamentals](https://learn.microsoft.com/api/credentials/share/en-us/LijoKG-0135/E77C18AC9FED7A03?sharingId)