

Deepakumar V U

Pune, MH • +91 9403659628 • deepakumarvu@gmail.com • [linkedin.com/in/deepakumar-v-u](https://www.linkedin.com/in/deepakumar-v-u)

Areas of Expertise

- | | | | |
|-------------------------|-----------------|---------------|-------------------|
| • Product Management | • Golang | • SES | • AWS Private CA |
| • Solution Architecture | • Python | • SNS | • Docker |
| • Security Review | • DynamoDB | • API Gateway | • Cloud Formation |
| • Mentoring | • TimeStream DB | • WAF | • SAM |
| • Feature Engineering | • Lambda | • Cloud Watch | • SAR |
| • IoT | • SQS | • IoT Core | • Jenkins |

Work Experience

Senior Software Engineer Tuskira Inc.	August 2025 – Present Pune, Maharashtra
---	--

Building an AI-powered security mesh unifying 150+ tools for defence.

Tech Stack: Golang, AWS, Docker, Kubernetes

Senior Cloud Backend Engineer Espressif Systems	January 2024 – July 2025 Pune, Maharashtra
---	---

Building Matter DAC Service, a managed PKI service for IoT Devices.

Tech Stack: Golang, AWS, Jenkins, Python, GitLab

- Designed and maintained **large-scale distributed** backend services managing millions of IoT devices.
- Built micro-service architectures using Golang and AWS, supporting modular, scalable growth.
- Championed scenario-based unit testing frameworks (**>95% coverage**), boosting overall product quality
- Reduced **90% costs** by designing a custom PKI solution over AWS KMS.
- Designing and built an in-house and highly flexible **RBAC** for Rainmaker and Other Espressif products.
- **Mentored** junior engineers, fostering a strong culture of code quality, testing, and continuous improvement.

Cloud Backend Engineer Espressif Systems	July 2021 – December 2023 Pune, Maharashtra
--	--

Led the design and development of a scalable cloud-based PKI product, achieving rapid delivery within 8 weeks, and received recognition for excellence with the ESP-Champion-Club Award. Additionally, optimized server-less architectures, improved test coverage, and mentored junior team members while implementing significant cost and performance optimizations.

Tech Stack: Golang, AWS, Jenkins, Python, GitLab

- Lead the design and development of a **highly scalable cloud-based PKI** product and delivered the first iteration of the product within **8 weeks**.
- Received **ESP-Champion-Club Award** in Q3 2023 for the excellent work done as part of the DAC Pre-provisioning team.
- Designed and implemented numerous **highly scalable** and **cost-efficient** cloud **server-less architectures** with a wide range of AWS services. Features like group sharing, stats service, and time series DB for IoT nodes.
- Worked towards setting up scenario based **unit testing framework** and achieved a **+95%** test coverage for newly added code.

- Optimized services by introducing **concurrent processing** for polling and data processing functions with channels and semaphores.
- Introduced request batching to reduce request **execution time** by **20%** and **costs** by **30%**.
- Implemented various optimizations like **dependency management** to **eradicate** production build **errors**, dependency **vulnerability screening** and setup Gitlab pipeline for merge requests.

Associate Cloud Engineer

Espressif Systems

December 2020 – June 2021
Pune, Maharashtra

Developed key features for RainMaker in Golang and resolved a critical privilege escalation vulnerability. Introduced tools to streamline team development.

Tech Stack: Golang, AWS

- Worked extensively in Golang to develop numerous **features** for RainMaker.
- Identified and promptly fixed a **platinum level** privilege escalation **vulnerability** in RainMaker.
- Discovered various tools for the team to ease the development.

Software Engineer

UBS

July 2019 – November 2020
Pune, Maharashtra

Streamlined risk simulation models using R and reduced debugging time by 80% with a custom error-logging package. Integrated DevOps with TeamCity and Puppet, cutting deployment time by 50% and issues by 90%.

Tech Stack: R, Oracle MySQL DB, Python, Teamcity, Puppet, Shell Scripting

Education

Pune Institute of Computer Technology

B.E. Computer Engineering

August 2015 – June 2019
Pune, Maharashtra

- **CGPA:** 8.88/10.0
- Coding and Financial lead of PICT Robotics 2018.
- **Project:** Automated Glaucoma detection using CNN, sponsored by National Institute of Ophthalmology (NIO).

Positions

Vice Chair

Connectivity Standards Alliance

October 2023 – Present
Pune, Maharashtra

- Acting as a Vice Chair of Security Design Tiger Team.
- Leading DA-PKI Revocation for Matter.

Certifications

AWS Certified Solutions Architect – Professional

Issued June 2025 - Expires June 2028

AWS Certified Solutions Architect – Associate

Issued June 2022 - Expires June 2028