

# Deepakumar V U

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## Areas of Expertise

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- |                         |                 |               |                   |
|-------------------------|-----------------|---------------|-------------------|
| • 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             |
|                         | • SQS           | • IoT Core    | • Jenkins         |

## Work Experience

### Senior Cloud Backend Engineer

Espressif Systems

January 2024 – Present

Pune, Maharashtra

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

**Tech Stack:** Golang, AWS, RBAC

- Leading various initiatives to enhance the product experience.
- Designing an in-house and highly flexible RBAC for Rainmaker and Other Espressif products.

### 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 serverless 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.
- **Mentored** junior team members.

## 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

- Worked extensively in R to process inputs necessary for **risk simulation models**.
- Integrated **DevOps** into our product deployments using Teamcity and Puppet to **reduce deployment time by 50%** and issues by **90%**.
- Developed R package to extensively **log errors for parallel execution**, which aided in cutting the time spent debugging by **80%**.

## Education

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### 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

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### 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

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### AWS Certified Solutions Architect – Associate

Issued June 2022 - Expires June 2025