

ABHILASH G

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EDUCATION

BMS College of Engineering, Basavangudi, Bengaluru, India.

Aug 2017 – May 2021

Bachelor of Engineering in Information Science and Engineering

GPA: 8.6

Coursework: Algorithms, Data structures, Operating systems, Computer networks, Data mining,
Database management systems, Object oriented programming, Software engineering, Machine learning

TECHNICAL SKILLS

Languages, Tools	Golang, Java, Python, Node.js, gRPC, Swagger, Redis, RabbitMQ, Lua, PHP,
Web, Mobile, Frameworks	Docker, Kubernetes, GitHub, Bitbucket, HTML, CSS, JavaScript, XML, Android,
Databases, Big Data	MYSQL, MongoDB, AWS

EXPERIENCE

Kaleyra, Bengaluru, India.

Aug 2021 – Present

Developed high-performance, low-latency, and scalable cloud communication microservices as a software developer in voice team, including projects such as:

- SIP VPN tunneling project - focused on establishing telephony services within a private Virtual Private Cloud (VPC) environment. This project utilizes SIP trunking, Asterisk and Kamailio, which enables the transmission of voice and multimedia sessions over IP networks.
- Built "kroutes", a gRPC service that optimizes the allocation of DID numbers and call routing based on the customer's provider and location information. By implementing advanced caching techniques using Redis and Lua, the response time was significantly improved, reducing it from 1.5 seconds to an impressive 130 milliseconds.
- Developed a microservice called "sound-downloader" that enables real-time, concurrent, and low-latency sound file downloads while live calls are in progress. Using goroutines, channels, and the gocraft work library, this service achieved exceptional performance and reliability. Success rate of 99.6% and 70% faster, enhancing the overall user experience voice communication.
- VoIP-manager - an HTTP service built with Golang, Redis and the Echo framework, delivering a robust backend API for efficient management of SIP accounts.

Infoblox, Bengaluru, India

Jan 2021 – July 2021

- Building network automation and security solutions, specializing in delivering secure and reliable DNS, DHCP, and IP address management services.
- Developed and presented a serverless proof-of-concept on AWS, leveraging Lambda functions (Python with Boto3), API Gateway, S3, and CloudWatch, followed by successful migration of legacy APIs to a serverless architecture, demonstrating improved scalability and cost-effectiveness.

PUBLICATIONS/CERTIFICATIONS

- Paper on effective E-waste management techniques at Journal of Network Communications and Emerging Technologies, highlighting innovative approaches to address the challenges of electronic waste disposal and sustainability ([link](#)).
- Coursera certifications in AWS Fundamentals-Addressing Security Risks, AWS Fundamentals-Going Cloud-Native, and AWS Fundamentals -Migrating to the Cloud.

PROJECTS

Secondhand car portal

Java, MySQL

- Developed a dynamic car buying and selling portal, integrating a MySQL database with Hibernate for seamless, enabling users to buy and sell cars through competitive bidding.

Analysis of shopping mall customers

Python

- A Social network analysis using the Networkx library to analyze customers visiting shopping malls in Bangalore, examining their behaviors and relationships based on diverse criteria, enabling targeted strategies for improving customer experiences, optimizing marketing efforts, and fostering stronger connections within the customer network.

Smart Recommendation

Java

- Focused on enhancing interpersonal interactions by leveraging personal and interpersonal interest similarity and influence, utilizing user search data to create personalized recommendations, resulting in unique and meaningful connections between individuals for improved interaction experiences.