NILAY NISHAT KUJUR

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OBJECTIVE

Targeting opportunities to enhance both Cloud Systems and Full Stack Development in innovative organizations, leveraging expertise in Cloud Infrastructure, Microservices, and Distributed Systems, with proficiency in Python, C++, AWS, Serverless Architectures, and Terraform, driving scalability and operational performance.

PROFILE SUMMARY

- **B.Tech.** professional with **over 2 years** of experience in **Cloud Software Engineering** in the **Tech** industry, specializing in **Cloud Infrastructure, Microservices,** & **Distributed Systems.**
- Last worked as **Software Engineer at Samsung R&D,** developed **Scalable Cloud Solutions** and enhanced **system performance** using **advanced Engineering** methodologies.
- Improved **API response times** by boosting the **redirect API's throughput** from **100 to 2000** requests per second using **Serverless Architecture.**
- Proficient in **Python, C++, AWS Services (Lambda, Kinesis, DynamoDB, CloudWatch, Athena, API Gateway, DAX, S3, Glue), Terraform, DBMS, IAC, CI/CD,** and **Linux,** with expertise in **developing, automating,** and **optimizing scalable cloud-based solutions.**
- Experience with **AWS Services (EC2, S3, Lambda, RDS),** optimizing cloud solutions for performance and scalability.

EDUCATION

B.TECH.: ELECTRICAL ENGINEERING 2022
National Institute of Technology (NIT), Meghalaya

CORE COMPETENCIES

- Cloud Services
- Front-end / Back-end Development
- Cloud Infrastructure Design
- Microservices Architecture
- Cloud-Based Analytics
- Cloud Migration Strategy
- Software Development Life Cycle
- Distributed Systems Design
- DevOps Practices
- API Design and Integration

TECHNICAL SKILLS

- **Programming & Development:** Python, C++
- **Cloud Services & Infrastructure:** AWS Lambda, Kinesis Firehose, DynamoDB (NoSQL), CloudWatch, Athena, API Gateway, DynamoDB Accelerator (DAX), S3, Glue
- **DevOps & Tools:** Terraform, Database Management Systems (DBMS),

EXPERIENCE

SAMSUNG R&D INSTITUTE
Delhi

Software Engineer 06/2022 to 09/2024

Key Result Areas:

- Engineered scalable and secure architectures, optimizing system performance using serverless computing and real-time event processing
- Enhanced operational efficiency and reduced costs by automating cloud management and integrating cloud solutions
- Leveraged AWS services for infrastructure optimization, ensuring high availability, scalability, and performance

Galaxy Store Badges (SRA):

- Led the creation of a scalable and secure shortURL service that provided device-specific short link generation and conditional redirects for both Samsung & non-Samsung devices
- Optimized the redirect API by implementing a serverless architecture, boosting throughput from 100 to 2,000 requests per second (RPS), greatly enhancing user experience
- Developed a high-performance, decoupled analytics engine capable of processing 5,000 click events per second, ensuring 100% data accuracy and real-time delivery
- Built a Ruby on Rails Plugin for Discourse to encrypt PII for over 2,000 Samsung employees, reinforcing security and ensuring compliance with data protection regulations

Infra Team (SRID):

- Automated 15+ governance and security processes, reducing manual cloud management by 40% and lowering monthly operational expenses by 15% across 20+ service accounts
- Designed and deployed a cloud-based solution that integrated with existing systems, resulting in an increase in operational efficiency and improved data access for users
- Utilized AWS services such as EC2, S3, Lambda, RDS, CloudWatch, IAM, and Terraform to optimize cloud infrastructure, improving performance and scalability

CERTIFICATION

AWS Certified Solutions Architect(In Progress)

AWARDS

- Spot Award, Achieved 15% cost reduction across 27 accounts by automating EBS Volume conversion from GP2 to GP3.
- **Winner, Meghalaya Hackathon 2020:** eveloped a Smart Farming Solution.

PROJECTS

Title: Correlation Analysis for Stock Returns and Trading Volume
Technologies Used: Python (Pandas, Numpy, Statsmodels, Matplotlib, Seaborn), Statistical Analysis (F-statistics, AIC, BIC), Time-Series Regression

- Conducted a 10-year analysis of daily stock returns and trading volumes for the S&P 500, NIKKEI 225, and FTSE 100 indices.
- Applied advanced statistical techniques, including F-statistics, AIC, and BIC, for multivariate regression modeling to assess inter-market relationships.
- Detected notable lagged causal interactions between the US, UK, and Japan equity markets using time-series analysis techniques.

Title: Fault Detection and Classification Method using ANN for Power Transmission Lines
Technologies Used: Python (TensorFlow, Keras, scikit-learn), Deep Learning (ANN, Backpropagation)

- Model Evaluation (MSE), Engineered an Artificial Neural Network (ANN) to classify faults in power transmission lines within an IEEE 14-bus test system.
- Developed and optimized a feed-forward neural network using backpropagation, evaluating performance using Mean Squared Error (MSE) as the loss function.