

# Surya Prakash S

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## Professional Summary

Full Stack Developer with 4.3 years of experience building scalable, high-performance web applications, APIs, and cloud-native solutions. Skilled in Python, FastAPI, React, PostgreSQL, and AWS, with expertise in designing dynamic, user-friendly interfaces, developing robust REST APIs, and integrating front-end and back-end systems seamlessly. Experienced in automating infrastructure provisioning, optimizing application performance, and implementing best practices to reduce operational costs, streamline workflows, and accelerate product delivery.

## Core Skills

**Programming Languages:** Python, SQL, JavaScript (ES6+)

**FrontEnd:** React.js, HTML5, CSS3, JQuery

**BackEnd:** FastAPI, OAuth2, Pydantic models, SQLAlchemy ORM

**Databases:** MySQL, PostgreSQL, MongoDB

**DevOps Tools:** Git, Docker, AWS CodePipeline, Jenkins

**Cloud:** Amazon Web Services (AWS – EC2, Lambda, Elastic Beanstalk, CloudWatch, CloudTrail, EKS, ECR, S3, RDS)

**Tools:** VSCode, PuTTY, FileZilla, MobaXterm, Postman

**Messaging & Streaming:** Apache Kafka

## Work Experience

### MayFlower Software Pvt Ltd

Jan 2024 – Present

NetOps Engineer

Chennai, India

**DrFirst Innovative Health Care** – React, Python, FastAPI, PostgreSQL, AWS

- Developed Python 3.x backend services with FastAPI, optimizing performance and adhering to PEP 8.
- Built RESTful APIs with secure authentication, robust error handling, and strict data validation.
- Designed PostgreSQL schemas, wrote optimized SQL queries, and integrated via SQLAlchemy ORM.
- Built a metadata-driven framework for rapid dynamic screen generation.
- Automated AWS Account and EC2 provisioning with custom UI and backend services.
- Managed Git codebase with branching, merging, and peer reviews.
- Developed Okta automation using Okta APIs for group management, user provisioning, and application assignments.

### Virtusa Consulting Services Pvt Ltd

Aug 2021 – Jan 2024

Engineer

Hyderabad, India

**CITI-AMER BFS CITI GFTS** – Python, Boto3, AWS

- Configured AWS Auto Scaling Groups and Load Balancers to ensure high availability for production workloads.
- Developed Python automation scripts for EC2 instance management using Boto3 to reduce manual effort.
- Configured IAM roles and policies to enforce security best practices, including encryption in transit and at rest.
- Monitored infrastructure using AWS CloudWatch, CloudTrail to track performance and maintain stability.
- Reduced AWS cost usage by implementing Reserved Instances and Spot Instances for non-critical workloads.
- Enhanced Python code execution, streamlined database queries, and fine-tuned API endpoints to enhance system responsiveness and deliver a smoother, faster application experience for end users.
- Improved Python code efficiency and database interactions to enhance application performance.

## Certifications

- AWS Solutions Architect - Associate
- FullStack Data Science Masters - iNeuron

## Education

Sri Ramakrishna Institute of Technology

B.Tech: Information Technology (IT)

Aug 2017 – Apr 2021

CGPA: 8.1