Saurabh Verma

Senior Backend Engineer | Python • AWS • Scalable Systems | IIIT Allahabad

Backend-focused engineer with 10 years of experience in scalable system design, product architecture, and cloud development.

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Senior Engineer Cambium Networks

01/2023 - Present Bangalore, Karnataka

Cambium Networks is a leading provider of wireless networking solutions, serving enterprises and ISPs globally.

Achievements/Tasks

- Developed and optimized backend services for cnMaestro, enhancing network monitoring and device management.
- Implemented asynchronous task processing with RabbitMQ & Celery, handling highvolume network events in real-time.
- Optimized database queries in MongoDB & PostgreSQL, improving response times and system efficiency.
- Improved system reliability with Redis caching, optimizing API response times for frequent queries.
- Applied object-oriented principles and design patterns (Factory, Singleton, Strategy, etc.) to develop scalable and maintainable backend services.
- Conducted in-depth code reviews and mentored junior developers on API design, testing, and cloud-native practices to ensure code quality and team growth.

Senior Software Developer Helloverify India Private Limited

02/2020 - 01/2023 Noida, Uttar Pradesh

HelloVerify is a background verification platform offering instant document verification, criminal checks, and identity validation.

Achievements/Tasks

- Designed and developed scalable backend services using Django & DRF, handling high-volume verification requests.
- Automated document verification workflows using Selenium, reducing manual intervention by 70%.
- Designed high-level and low-level architectures, ensuring scalability and maintainability.
- Integrated third-party cloud services such as Twilio, Razorpay, and Google Maps API to enable communication, payments, and location-based features.
- Led a team of developers and took complete ownership of backend modules from requirement gathering to design, development, and deployment.

Consultant CPA Global

08/2015 - 01/2020 Noida, Uttar Pradesh

CPA Global is a technology-driven company providing enterprise solutions to streamline business operations.

Achievements/Tasks

- Automated data extraction and report generation using Selenium, reducing manual workload.
- Implemented role-based access control (RBAC) for secure user authentication and authorization.



SKILLS

Language: Python

Frameworks: Django, Django REST Framework (DRF), Flask, FastAPI, SQLAlchemy

Core Concepts: Asynchronous Programming, Data Structures, Algorithms

Databases: MySQL, PostgreSQL, MongoDB

Cloud: AWS (S3, SQS, SNS, EC2, ECS, Lambda, API Gateway, CloudWatch, etc.)

Messaging/Caching: Redis, RabbitMQ, Celery, Memcached

Auth: OAuth2, JWT

AI/LLM Tools: LLaMA, OpenAI (GPT), GitHub Copilot

DevOps: Docker, Jenkins, GitHub, Bitbucket

Tools & Platforms: Git, Jira, Sentry, Selenium, Google Maps API, Twilio, Razorpay

Technical Leadership: Team Leadership, Mentoring, Code Reviews



EDUCATION

MTech - IT - Software Engineering IIITA - 9.12 CGPA

2013 - 2015 Allahabad, Uttar Pradesh

BTech - Computer Science and Engineering

ACET - UPTU - 75.90 %

2008 - 2012 Aligarh, Uttar Pradesh



cnMaestro – Cloud & On-Premises Network Management Platform (01/2023 - Present) ♂

- A cloud-based and on-premises software platform for secure, end-to-end wireless network management, offering full network visibility and zero-touch provisioning.
- Technology Stack: Python, Flask, AWS Services (S3, SQS, SNS, EC2, ECS, Lambda, etc.), PostgreSQL, MongoDB, Redis, RabbitMQ, JWT, Docker, LLaMA
- Developed multi-tenant architecture to support multiple network operators with isolated environments.
- Implemented real-time network monitoring APIs, allowing administrators to track device performance and connectivity.
- Integrated zero-touch provisioning, enabling automated device onboarding and reducing manual setup time
- Optimized large-scale data processing and storage in PostgreSQL and MongoDB, enabling
 efficient retrieval of historical network data.
- Implemented event-driven communication with RabbitMQ to enhance responsiveness for alerts and updates.
- Implemented RBAC to enforce secure, role-specific access to network data.
- Provisioned and managed cloud infrastructure using AWS CDK, enabling scalable and repeatable deployments with Infrastructure as Code.
- Fine-tuned Meta's LLaMA model on domain-specific datasets to enhance the accuracy of downstream NLP tasks such as summarization and question answering.

HelloV – WhatsApp-Based Instant Background Verification (08/2021 - 01/2023) ♂

- A WhatsApp-integrated application enabling instant document verification (DL, Aadhaar, etc.) and criminal background checks.
- Technology Stack: Python, Django, DRF, AWS Services (S3, EC2, Lambda, etc.), Celery, Memcached, Selenium, MySQL, Docker.
- Integrated WhatsApp chatbot for seamless document submission and verification.
- Implemented OCR-based document processing to extract key details from Aadhaar, DL, and other IDs.
- Designed and optimized MySQL database schema, ensuring fast retrieval of verification records.
- Built asynchronous task processing using Celery & Redis, reducing response times for background verification checks.
- Automated criminal record searches using Selenium, eliminating manual intervention and improving efficiency.
- Led requirement gathering and system design to ensure scalability and robustness.

SocialTick – Instant Background Verification for Android & iOS (01/2021 - 08/2021) ☑

- A mobile application enabling instant and accurate background verification, including document verification, criminal checks, liveliness checks, and face matching.
- Technology Stack: Python, Django, DRF, AWS Services (S3, SQS, SNS, EC2, ECS, Lambda, etc.), MySQL, Celery, Redis, JWT, Docker.
- Designed real-time verification workflows, ensuring instant processing of background checks
- Implemented face-matching and liveliness detection for identity verification using AI-based algorithms.
- Integrated secure document upload & OCR processing, automating Aadhaar, DL, and passport verification.

Visa Screening – Web-Based Background Verification for Visa Applicants (02/2020 - 12/2020) ♂

 Designed and developed a **Django & DRF-based** backend for managing document submission, verification workflows, and payment processing. Automated **document validation** using **Selenium**, reducing manual intervention. Implemented RBAC for secure applicant data handling and seamless API interaction with Angular frontend.

iWeb Task Manager – Employee Collaboration & Task Management System (06/2016 - 01/2020)

Developed a Django & DRF-based backend to manage tasks, schedules, and team
collaboration. Implemented real-time notifications for task updates and status tracking. Built
user access management to enforce permissions and integrated APIs with Angular frontend
for a smooth user experience.

AutoBot – Automated Data Extraction & Report Generation (10/2015 - 05/2016)

 Developed a Flask-based application to automate data extraction from multiple sources using Selenium. Implemented dynamic data parsing to transform unstructured data into structured reports. Designed error handling and retry mechanisms to improve extraction reliability and ensure seamless report generation.



CERTIFICATES

AWS Certified Solutions Architect - Associate 2020 (02/2021) ♂

Python Gold Badge (05/2020)

HackerRank

Ethical Hacking Certification

Certified from Kyrion (in 2011) and Techdefence (in 2013) in Ethical Hacking.



ACHIEVEMENTS

Pursuit of Excellence Award (CPA Global Limited)

Got pursuit of excellence award for continuously delivering projects on time.

Qualified GATE exam

Qualified GATE exam from 2011 to 2018 with 98+ percentile.

Qualified UGC NET

Qualified UGC NET December-2014 and June-2015.



PUBLICATIONS

Journal Article

Evaluation of Privacy
Preserving In-Network
Aggregation for Different
Routing Structures in WSNs

Author(s)

Saurabh Verma, Vishal Krishna Singha, Manish Kumar 2017

Proposed an efficient approach to detect node replication attacks in wireless sensor networks, enhancing security and reducing false positives.



LANGUAGES

English

Full Professional Proficiency

Hind

Full Professional Proficiency