

Ayush Sharma

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Skills

AWS | Python | Node | TypeScript | System Design

#Expertise

Programming Skills: Python, TypeScript, Shell scripting

AWS Services: EC2, DynamoDB, S3, Lambda, AWS IoT Core,

API gateway, CloudWatch, Route53, CLI, SQS, SNS, AWS CodePipeline.

Tools: Postman, Eclipse, PyCharm, Jupyter Notebook, MySQL Workbench, IDE, VScode, Putty, AWS python-SDK.

IoT Controller/ Modules: Raspberry Pi, Arduino, ESP8266 Wi-Fi module, Nextion Displays, RFIDs Modules, SIM module, and sensors.

Other skills: Node, Linux, REST APIs, ci/cd pipeline, MQTT, boto3, TCP/UDP, Git, Testing & troubleshooting of Hardware and Sensors.

#Also Know

Programming Skills: Java

Frameworks/Database: Kafka/ NoSQL

DevOps skills: Terraform, Docker

Experience

3pillar Global

December 2021 – Present

Software Engineer II

- To our US real-state client, we migrate their legacy Architecture to cloud base architecture. Removed Oracle and legacy Talend system (process data from salesforce to Oracle) to AWS.
- A project like Showing Hub, where Buyers can book agents' time according to available slots. Showing Hub is a software as Service, which use by multiple real-state MLS as a feature to integrate their business. We created a complete backend of Showing Hub on the cloud and documented the API on Swagger hub for the clients. Use AWS serverless service for API, storage, alarms and notification.
- Tech stack: Node.js, JavaScript/Typescript, Jest framework for testing, AWS (majorly API gateway, lambda, S3, SQS, SNS), Terraform, Serverless testing, Swagger hub and GraphQL. Some work on Docker, Shell scripting and cypress testing.

DataFlow Group

September 2021 – December 2021

Associate - I

Worked on AWS serverless architecture for Primary Source Verification Services which is based on AWS lambda, API gateway, Cloudformation, and S3. Also using python, flask, nodeJs, AJAX API call, passportEye library, etc.

Ajna.ai Pvt. Ltd

April 2021 – September 2021

AIoT Engineer

- Real-time video and object detection through Nvidia Jetson Nano device by its open-source pipeline, implementing a real-time solution with Kafka, using Paho and mosquitto-clients MQTT protocols, Shell Scripting, IP connection routing, Data Pipeline, Trigger, CRON jobs.
- Basic of Jenkins, Dockerization, Github Action workflow, Research and Development (R&D), Continuous integrating, cloud services.

Supremus Developer Pvt. Ltd

April 2019 – June 2020

IoT Engineer

- Developed **Python** scripts to bridge the communication between **IoT devices** (Raspberry Pi) and **AWS Cloud** using libraries like AWSIoTPythonSDK, MQTTLib, boto3. For integrating sensors on raspberry Pi RPi. GPIO and some Adafruit libraries. Maintained python code standard, worked majorly on Linux (Raspbian), some shell scripting for CRON jobs, or CLI for deployment. Provide daily monitoring, debugging/troubleshooting, management, upgrades, deployments on code as well as on hosted Cloud service.

Hardware Integration

- Integrated **sensors** like TDS, turbidity, pH, pressure, GPS, Flow sensor & **Modules** like RTC, SIM800I module, RFID-RC522, and Coin slot CH923 in Raspberry pi using GPIO with Serial and I2C communication. Debug, troubleshoot, replace, and solder the faulty hardware.

Management and IT support

- Helped in the **supervision** of 50+ water dispensing booths with on-site supports and supervised on-site machine operators.
- Provide client solutions, security analysis report, and continuous improvements report to Management Team periodically.

Projects

Smart Water ATM Dispensers

- The Machine dispenses water on a debit of the required amount through coin, prepaid card/RFID card, or UPI. Fully controlled on-demand real-time system with sensors data analysis on the dashboard and in mobile applications. The Water ATM is fully automatic and can be controlled from the Dashboard or mobile application with the required user permission.

MommysMade.in (ongoing)

- Created and hosted a website using the AWS Route53, Load balancer, and HTML, the backend is in AWS EC2.
- Enable HTTPS protocol using standard TLS/SSL certificates by taking reference to letsencrypt.com

Academics

- Bachelor's degree in Electronics and Communication Engineering from GGSIPU, Delhi.
- Diploma in Electronics and Communication Engineering from The Board of Technical Education, Delhi.