Subrat Kumar Panda | Systems Engineer | Hyderabad

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Professional Summary:

- Experienced **Backend Developer** with **3 years of Professional experience** in problem-solving, designing and developing enterprise applications with an excellent leadership record. Predominant expertise in **NodeJS, Azure Cloud** and **Chatbot Development**.
- Eager to contribute as a **SDE Backend Developer**, **or DevOps** Engineer.

SKILLS:

- **Technical Skills**: Rest-APIs, Azure Cloud, Docker, Kubernetes, IBM Cloud, DevOps, JIRA, GIT, GITHUB, MySQL, OOPS, PostgreSQL, IoT
- **Management Skills**: ITIL/ITSM, ServiceNow, Project Management, Client Negotiation, L-Shift Management
- **Programming Languages**: Node.js, Java, C++, HTML, CSS

EXPERIENCE:

Systems Engineer at Tata Consultancy Services Hyderabad (Jul 2021 – Jul 2024)

a. Microservices Migration Project:

- As the Offshore Technical Lead for a healthcare MNC, led the Intelligent Automations backend API team in developing & testing scalable systems.
- Redesigned **HLD & LLD** architecture of **NodeJS** based **Chatbot Platform,** transforming APIs to **Microservices** resulting in a cost reduction of **$4000/M**.
- Architected a chatbot backend supporting **9 frontend platforms** (Webpages, MS Teams, SharePoint, Facebook Messenger, Workplace, Telegram, Twitter, Twilio SMS, WhatsApp) using the **Adapter Design Pattern and NodeJS**, with multiple third-party API integrations.
- Designed CI/CD pipelines for Docker containerization for an **ACR**, reducing manual efforts & **AKS** deployment time by approximately **15-20 hours** monthly.
- Optimized SQL database usage through **query optimization** (**Indexing & Restructuring Joins**), decreasing API response time by 25%.
- Played a key role in enterprise-level migration from **Kong to APIGEE API** Gateway, improving **security by 40% and performance by 33%**.

b. Intelligent Automation Project:

- Developed a high-value chatbot and its Backend System, resulting in **2FTE** savings & monthly cost reductions of **$15,000** for the client.
- Optimized IBM & Azure cloud resources, leading to a cost savings of **$3,500** per month for the client.
- Built advanced **Java** & **Node -** based **RESTful APIs** to serve as a backend service for RPA bots, handling over **2 million** weekly transactions with 0 downtime.
- Participated in 200+ code reviews, offering debugging guidance and addressing concerns regarding web applications and APIs utilized in **RPA services**.

IOT Developer Intern at CSKA Automation Services (Sep 2020 - Dec 2020)

- Implemented Internet based **Remote Delivery System** using Robots with 100% Success Rate.
- Developed a **Home Automation Systems** with 100% Success rate.
- Created a Dynamic Interactive System for a Humanoid.

Achievements & Accomplishments:

- Honored with the **Service & Commitment Award, OnTheSpot Award, Applause Award, Star Team Award, Elevate Wings Award** for dedicated service to TCS.
- Awarded as **National Winner** of **'Smart India Hackathon 2020'** Hardware Edition (Dept. of Scientific & Industrial Research) by MHRD.
- Excelled as a **National Finalist** in **'L&T Techgium 2019-20'** & as an **'Emerging Innovator'** by KPIT Technologies at **'KPIT Sparkle 2020'**

PROJECTS:

File Sharing App:

- Developed file sharing with **Node.js Express** as the backend, enabling upload, download, and static authentication.
- Successfully achieved a 20-30% reduction in file management time, as per documentation.
- Implemented secure file uploads using Multer to ensure data integrity and confidentiality.

Multiple Chatbot Backend: (https://github.com/subrat25/test_chatbot_template.github.io)

- Developed a backend using **Node.js Express**, integrating 2 Chatbot AI providers (**Watson and Google Dialogflow**)
- Implemented robust database operations through **Sequelize ORM**, ensuring scalability and maintainability.
- Enabled efficient logging of conversation details using **MySQL and PostgreSQL**, streamlining data management.

E-Com Backend Project: (https://github.com/subrat25/ecom-backend-node)

- Developed a robust backend service for an e-commerce platform using Node.js and Express.js, with MySQL as the database.
- Implemented comprehensive user, address, cart, and purchase management functionalities.
- Ensured secure user authentication and authorization with JWT and optimized database transactions for efficiency.

Certifications & Trainings:

- Upscaling expertise in **Data Structures, Algorithms, Competitive coding and Software Development** at **Scaler** Academy.
- Completed Certification courses about Building **Chatbots** using **IBM Watson**, **Google Dialogflow** & **Azure** (LinkedIn Learning & Cognitive Class)
- Certification courses such as **Arduino Platform** & **C Programming**, **Python Programming** in **Raspberry pi** & **IoT and Embedded Systems** by **University of California, Irvine** (Through Coursera)

Education:

Veer Surendra Sai University of Technology, Burla

B. Tech (Electrical & Electronics)	Year:2021	CGPA: 7.95

ODM International School, Bhubaneswar

Class: XII (Non-Medical)	Year:2017	Percentage: 89.8

DAV Model School, IIT Kharagpur

Class: X	Year:2015	Percentage: 93.1