Pooja Nigam

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SUMMARY

Full Stack Engineer specializing in Python, Java and JavaScript with a focus on application development and AWS deployment. Skilled in microservice architecture, CI/CD and cross-functional collaboration to drive innovation and efficiency in software engineering projects.

SKILLS

- **Programming**: Python, Java, JavaScript, HTML, CSS
- **Frameworks & Tools** : Django, Flask, Spring Boot, Docker, Kubernetes, Jenkins GitHub Actions, Git, RESTful, GraphQL, Angular, React, MUI, Vue.Js
- **Database**: Oracle, MySQL, MongoDB, MariaDB, PostgreSQL, Redis, Snowflake
- **Key Strengths**: API Development, API Optimization, CI/CD Implementation, AWS (ECS, EC2, S3), Microservices Architecture, Cross-functional Collaboration, Test Strategy Definition, Issue Escalation & Reporting

PROFESSIONAL EXPERIENCE

Software Engineer, Cognowiz, Ashburn, VA (Remote)   **Feb 2025 – Present**
- Engineered and maintained **APIs** with Python (**Flask**) and JavaScript (**Express.js**) in a **microservice architecture**, integrated customized data pipelines with Power BI, to enhance data processing and visualization.
- **Tested**, **debugged** and optimized API performance with **Postman**, **Pytest** and **GitHub Actions**, improving Power BI reporting accuracy and efficiency by reducing response times and enhancing data reliability in production environments.
- Composed technical specifications and **API documentation** to support development, testing, and maintenance activities, focusing on reliability and low-friction operational handoffs.
- Defined internal onboarding guides and system architecture diagrams to standardize knowledge transfer across engineering teams.
- Communicated **sprint updates**, feature rollouts, and technical blockers through structured reports and stakeholder review sessions.

Software Engineer, Cantonica, NYC, NY (Remote)   **Sept 2024 – Jan 2025**
- Refactored and maintained Cantonica's web platform frontend using React, JavaScript, and HTML, on Cloudflare Pages.
- Built and maintained backend services with **Flask** and Python, integrated **MongoDB**, Redis, and deployed applications on **AWS** ECS with **Docker** and ECR, utilizing S3 for storing static assets and tested **APIs** using **Swagger**.
- Utilized **GitHub Actions** for CI/CD, ensuring integration and reducing deployment errors.

Software Developer, WebCraft IT, Arlington, TX   **June 2023 - May 2024**
- Delivered a full-stack customer feedback system integrated with Salesforce CRM using Python (**Flask**), **Node.js** in a microservice architecture for backend API development, **React** for frontend UI; integrated **RabbitMQ** for async messaging and tested APIs with **Pytest.**
- Optimized **DynamoDB** queries, reducing query response time by 30%; and migrated key datasets to **PostgreSQL** for data integration.
- Deployed and debugged applications on **AWS ECS** with **Nginx** for load balancing. Managed **CI/CD** using **Jenkins** and leveraging S3 for reliable deployments.

Full-Stack Developer, Oklahoma State University, Stillwater, OK   **Nov 2021 – May 2023**
- Implemented a full stack web app using **MERN** stack and **Python**; integrated **CNNs (TensorFlow, OpenCV)** for image recognition, automating plant disease detection.
- Leveraged **GANs** to augment datasets, improving insecticide treatment accuracy by 25%; designed an MVC architecture with **RESTful APIs**, reducing data processing time.

Software Developer, UnitedHealth Group (Cognizant), Pune   **Aug 2019 – July 2021**
- Developed Clinical Data Management and Appointment Scheduling Modules for the EMR System using Python (**Django**), JavaScript (**Node.js** and **React**), enhancing system efficiency and user interactions.
- Optimized appointment scheduling with asynchronous **Node.js** and **RabbitMQ messaging**, reducing booking confirmation times by 30%.
- **Deployed** and **debugged** Docker-based **microservices** with (**RESTful APIs**/**GraphQL**) on **AWS** EC2; configured **Nginx** for load balancing and scalability.
- Integrated the **Random Forest** model to improve patient risk assessments, improving diagnostic accuracy and patient care efficiency.

Asst. Software Engineer, Gig India, Pune   **July 2017 – July 2019**
- Assisted in **Java**-based user authentication and order processing, optimizing **MySQL** schemas to improve system performance and user satisfaction.

EDUCATION

M.S., Computer Science – Oklahoma State University, Stillwater, OK   **Graduated: May 2024**
B.E., Information Technology – Savitribai Phule Pune University   **Graduated: July 2019**