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Seelam Sainath

linkedin, github
Hyderabad

SUMMARY

Senior Software Engineer with 3 years of experience in building scalable microservices and APIs using Java, Spring Boot, and GCP. Expertise in performance optimization, database management, and end-to-end software development.

EDUCATION

Indian Institute of Information Technology   Allahabad, UP
B-Tech. & M-Tech. in Information Technology, GPA: 8/10   *Aug 2015 – May 2020*

- **Coursework**: Data Structures & Algorithms, Object-Oriented Programming, Objects & Software Design, Computer Organization, Systems & Networks, Design of Algorithms, Database Systems, Statistics, Applied Combinatorics

SKILLS

Languages: Java, Python, Javascript, C++, C
Technologies: Git, Spring-Boot, React, MySQL, MongoDB, Elasticsearch, Redis, , AWS, Docker, Linux, HTML/CSS

WORK EXPERIENCE

Werize   Bangalore, Karnataka
Software Engineer   *Feb 2024 – Oct 2024*

- Werize is the only fintech platform in India which is a social-shopify of finance, enabling 10k+ financially literate freelancers in 2500+ cities to sell products in their social circles.

cKYC Automation

- Automated cKYC data processing by designing a system for seamless upload and automated KYC updates via the CERSAI SFTP portal. This streamlined compliance for 100,000 customers.
- Configured AWS EC2 instances for secure communication with databases and government portals.

Loan Recommendation System

- Designed and developed a loan recommendation system to predict ROI, loan amount, and risk parameters based on customer financial history. Built and integrated RESTful APIs with robust validation, improving lead generation efficiency by 15%.

SME Business Integration

- Implemented 16 RESTful APIs with robust validations to extend business logic for SMEs. followed standard design patterns and principles to ensure scalable and customer-specific logic integration, resulting in a 15% increase in business revenue.

Integration of Elastic Stack

- Integrated the Elastic Stack (Logstash, Kibana, Elasticsearch) for efficient API logging, reducing debugging time by 60%, and set up Jenkins automated pipelines to streamline deployments, cutting deployment times by 30%.

HSBC   Hyderabad, Telangana
Senior Software Engineer   *Sept 2020 – Aug 2022*

- Worked in the Information Services team at HSBCnet, HSBC's global online banking platform for businesses and financial institutions, where I developed Restful micro-services to securely access and manage petabytes of customer financial data.

eStatements for Canada

- Led a team of five to implement microservices extending the eStatement system, enabling historical statement retrieval for Canadian users .

eStatements

- Designed multilingual PDF templates in JReport, enabling dynamic statement generation with language translation based on user location. Implemented RESTful endpoints for efficient PDF creation and seamless system integration. Developed a high-performance PDF generation system handling 10MB documents at 20 TPS, optimizing scalability, processing efficiency, and accessibility for a diverse user base.

Global Wallet, Account Information PDF

○ Collaborated with the design team to finalize the PDF layout for clarity and usability.Developed a full-stack PDF download feature, building the frontend in React and designing API flows in Swagger. Implemented a RESTful microservice to handle 10K users with a peak load of 1 TPS.

○ Established performance and security protocols using JMeter, mitigating data breaches and enhancing system integrity.

NVIDIA   Pune, India
Embedded Software Intern   *Jan 2020 – Feb 2020*

○ Developed benchmarking tools to compare memory management libraries (OpenGL, OpenCL) on Tegra SoC, which is used in improving SoC performance.

○ Visualized performance data using MatPlotLib and Pandas. (C/C++, Python)

PROJECTS

- **Nutritional AI (link): A diet-plan creation website**: Implemented a AI platform which is used by doctors to come up with an optimized dietplan providing the patient history and health goals. Tools: HTML/CSS/JS, Python, Django, MySQL, GCP.

- **Class Imbalance in Medical Datasets**: Under Prof. Artus (CEO, LYTIQ GmbH) — Improved F-measure to 0.79 on ICPAR breast cancer dataset by proposing novel architecture using Auto-encoders and ensemble methods. Tools: TensorFlow, Django, Python, JS.

- **HCR (Handwritten Character Recognition)**: Trained CNN on MNIST and Char Datasets and used contour method to segment and classify handwritten characters.

INVOLVEMENT

- **Prayas**: Involved in prayaas a society by IIITA which educates under-privillaged and I have taken the responsibilty to teach maths

- **TA**: I have worked as a Teaching assistant under Dr.Sonaly Agarwal for Object-oriented design course

HONORS & AWARDS

- **SLSTSC Olympiad**: Acheived 1st position in Andhra-pradesh in Olympiad (Physics, Maths, Chem, Computer-science) organized by unified council of olympiads

- **HSBC Hackathon (First Place)**: Built and automation tool using React and python scripts to automate the data-integrity checks of gifting team at HSBC.

- **IIITA Badminton (First Place)**: Secured First place for two consecutive years at IIITA soports events