SOLAIKANNAN PANDIYAN
Senior Software Engineer / Core Back-End Developer / Data Engineer
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PROFESSIONAL SUMMARY

Results-driven Backend Developer and Data Engineer with 5+ years of experience in backend development, cloud computing, and data engineering. Proficient in Java & Python with a proven track record of enhancing software efficiency, reducing costs, and implementing scalable solutions. Passionate about low-level engineering, including database architecture, operating systems, and network layers.

SKILL SET

Language	*Proficient*: Java (17+), Python (3+); *Competent*:JavaScript, Golang, C, SQL; *Intermediate*: Bash, C++, Scala
Frameworks & Libraries	Spring Boot (Core, REST, Cloud, Security, WebFlux), Node.js, React, Redux, FastAPI, Flask, Jypype
Cloud & Infrastructure	AWS (S3, EC2, RDS, DynamoDB, Lambda, Redshift), Docker, Kubernetes, Ansible
Data Processing & Servers	Pandas, PySpark, Map-Reduce, Autosys, Netty, Tomcat, Nginx, Uvicon
Storage & Messaging	Oracle SQL, PostGres, MongoDB, Redis, Kafka, IBM MQ
Logging & Testing	JUnit, Pytest, log4j, logging, Splunk, Elastic Search, Kibana
Performance Profiling & Tuning	JMeter, JVisualVM, cProfile, Snakeviz, JVM, PVM
Version Control & CI/CD	Git, Jenkins, Maven, Ansible, SonarQube
Network Protocols	TCP, HTTPS, FTP, GRPC, WebSockets, SSE
Architecture & High level Design	Microservices, Distributed Systems, Data Pipelines, Batch Processing, MVC, REST, SOAP, ETL
Low Level Design & Problem Solving	DSA, SOLID Principles, Design Patterns, OOD, Threading, AsyncIO
Soft Skills	Critical-Thinking, Communication, Ownership, Leadership, Cooperative Team Player

WORK PROJECT HIGHLIGHTS

CDCP Backend Services - *File Upload Microservice (Bank of America - Alternative Investments)*
- Created a reactive file-upload service using Spring WebFlux and FTP increasing concurrent processing by 50%

ETL - Data Processing Engine *(Bank of America - Alternative Investments)*
- Built a high-performance ETL system using Python, Go, Kafka, and Redis, improving data throughput by 80% via concurrency and parallelization

GIRT - Reporting Engine *(Bank of America - Alternative Investments)*
- Rebuilt a reporting engine using Java and Python with asynchronous MVC like architecture, achieving efficient report generation

Kobo CMS backend *(Rakuten Inc)*
- Designed validation handlers for book metadata, ensuring compliance across multiple markets

Team Metrics Dashboard *(Delta Airlines)*
- Automated server access delegation with Python and Bash, reducing response times by 85% and ensuring SLA compliance

EXPERIENCE

Senior Application Developer | Accenture | May 2023 - Present
- Built a high-performance Data Processing Engine that saved millions in fund pdf processing outsourcing costs.
- Developed Java Spring WebFlux microservice to cater to growing downstream services, increasing throughput by 50%.
- Saved $30k annually in windows server cost by transitioning reporting from Dotnet to Java and Python
- Mentored junior developers in Python, enhancing team productivity and technical skills.

Assistant Application Developer | Fujitsu | March 2022 - May 2023
- Enhanced CMS backend with custom validation and bug fixes, meeting client expectations and project goals.
- Spearheaded the development of a speech-to-text PDF highlighter, gaining client approval and delivering within tight deadlines.

Assistant System Engineer | Tata Consultancy Services | Aug 2019 - Feb 2021
- Automated critical processes, reducing manual workloads by 35% and cutting report generation time by 60%.
- Developed real-time monitoring dashboards using Java Spring MVC and ServiceNow API, improving team efficiency.

Support Engineer Intern | Amazon - Audible | Nov 2018 - June 2019
- Enhanced support and diagnosis tools, achieving 99.9% uptime through effective root cause analysis and dependency management.

NOTABLE WORK-RELATED PROJECTS / TASKS / INNOVATIONS

- **Report Generator**: Build a callback based java wrapper asynchronously handles report generation (Java, Jpype, Queue, Executor, Callback)
- **Async Decorators**: Designed thread/process pool-based decorators for event loop compatibility (Python, Asyncio, ThreadPool, ProcessPool)
- **Feature Extension Proxies:** Developed core library wrappers with resilience patterns, metrics, and asynchronous logging (Python, threading)
- **DB Layer API:** Developed a database agnostic data layer api helps to make procedure calls effectively with simple configurations (Python)
- **Real Time Speech-To-Text Highlighter:** Developed a PDF text highlighting react app with real-time speech transcription (Javascript, React)
- **Software Version Audit**: Software version classification system that performs 30 million fuzzy comparisons (Python, PySpark)
- **Legacy SQL Audit**: Automation to document SQL mutations across 1,000+ Java files with JSON and charts (Python)
- **Server Access Automation**: Automated Linux access, improving response by 85% (Python, Bash, ServiceNow)

ACHIEVEMENTS

- Recipient of the North Star Pinnacle Award FY25 for excellence in specialization, automation, innovation, and SME knowledge.
- Represented DU09 as an Innovation Anchor in the Accenture Innovation Marathon Program FY24
- Developed and presented value-adding features at Q3 business review meeting with BOFA Client
- Created Feature Extension Proxies for Python core libraries at BOFA P2 Innovation Event (Aug 2023)
- Received the BOFA Spot Award FY24 and for a technical improvement initiative
- Successfully transitioned a workload automation initiative at TCS, improving efficiency by 35%
- Delivered a POC project at Fujitsu, receiving client recognition and prototype production approval
- Completed 8-month internship at Audible - Amazon, Chennai during final year

EDUCATION

Bachelor of Mechatronics Engineering | Bannari Amman Institute Of Technology | 2015 - 2019
Related Elective Coursework: Data Structures & Algorithms, Operating System, Database

CERTIFICATION

- *AWS Developer Associate* (**DVA-C02**) • *Azure Fundamentals (AZ-900)* • *HackerRank Skills Certifications:* **Problem-Solving** (Intermediate), **SQL** (Intermediate), **REST API** (Intermediate)