RAJ SUDHARSHAN VIDYALATHA NATARAJAN

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SUMMARY

Experienced software developer with a strong background in backend development and cloud technologies. Detail-oriented and dedicated professional with proven problem-solving, critical thinking, and analytical abilities. Proficient in algorithm development, data structures, and object-oriented programming. Effective at partnering and multitasking in fast-paced environments to deliver innovative, reliable solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, Dart, HTML5, CSS
Frameworks/Libraries: Django, Flask, React, Flutter, NumPy, Pandas, Scikit, Matplotlib, Pygame
Databases: SQL Server, PostgreSQL, MySQL, MariaDB, SQLite, Supabase, AWS RDS, Aurora, Redshift, Firestore
Cloud: AWS (EC2, Lambda, SQS, API Gateway, CloudWatch, Glue, Data Pipeline), Firebase
Tools & Others: JSON, REST API, OAuth, JWT, Git, Unit Testing, JIRA, BMC Remedy, Power BI, Docker, Gunicorn

CERTIFICATIONS / ACHIEVEMENTS

- AWS Certified Solutions Architect – Associate   *Validity: July 2020 – July 2023*
- Won 2nd place at Google DSC Hackathon hosted by Northeastern University.

EXPERIENCE

Python Developer | E2 Infosystems   *August 2021 – December 2021*

- Spearheaded a platform migration project, leading a team of three and achieving a **75% improvement in site performance and response time**.
- Migrated PHP websites to **React** and **Django** frameworks and integrated **REST APIs** for seamless operation, resulting in improved efficiency and user experience.
- Proposed, deployed, and delivered three critical customer features, including an **innovative auto-assigning sensor device feature**, in four months, boosting customer satisfaction and retention.

Software Developer | Wipro Technologies   *May 2019 – November 2020*

- Collaborated with cross-functional teams to promptly resolve complex issues, ensuring availability and reliability of mission-critical applications.
- Performed successful **software patches and upgrades on mainframe**, eliminating security vulnerabilities and enhancing **data protection** for banking clients.

EDUCATION

MS in Information Systems, Northeastern University, California | GPA: 3.9   *Expected December 2023*
BE in Electrical and Electronics Eng., SRM Valliammai Engineering College   *April 2019*

PROJECTS

Low Latency Cloud Data Pipeline, Tech Stack: AWS Lambda, Redshift, SQS, CloudWatch   *February* 2023

- Built a scalable and efficient **serverless cloud-native data pipeline** using Python and AWS, with real-time updates and **proactive monitoring with CloudWatch** for increased reliability and minimal downtime.
- Created a low-latency reporting solution featuring **real-time dashboard filter adjustments**, guaranteeing near-instant data availability and responsiveness. Streamlined decision-making for stakeholders and executives, leading to improved business outcomes.

TrailTrack, Tech Stack: Python, Flask, Supabase, Firebase, React   *December 2022*

- Developed a **real-time emergency reporting webapp** with a location tracking feature, allowing parents to monitor child's location in real-time for added safety.
- Implemented a **live tracking system** to provide up-to-date information on child's location, ensuring parents always receive accurate information.

Car Rental Management System, Tech Stack: MS SQL Server, SSMS, Lucid Chart, Power BI   *July 2022*

- Collaborated with a 5-person team to develop a **comprehensive Car Rental Management System**, addressing key business problems such as **booking management**, **car availability optimization**, vendor integration, and **revenue analysis**.
- Implemented a **secure authentication** and membership validation process, alongside advanced database features such as CHECK constraints, computed columns, and **data encryption**, ensuring seamless customer experience, data integrity, and **enhanced performance**.