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Innovative Software Development Engineer with over 3 years of professional experience in cloud solutions and software architecture, including extensive work with AWS technologies. Skilled in designing and implementing scalable, cloud-native applications, with a proven track record of delivering high-quality software that enhances business operations and customer experiences.

Experience:

Ikon Technologies - Arlington, TX

Software Development Engineer I [June 2022 - Present]

- Spearheaded the design and development of a highly scalable, cloud-native backend infrastructure utilizing the **AWS CDK** with **TypeScript**, emphasizing **microservices** based system architecture from development, till production.
- **Led the migration to AWS Cognito**, enhancing security with OAuth flows and SSO, directly supporting the job's focus on delivering reliable and secure software solutions.
- Designed and deployed highly scalable **GraphQL APIs** with **Apollo GraphQL**, deployed on **AWS Fargate** as **Docker images** using **ECR**, ensuring 100% scalability, high availability and seamless interaction with IaC resources.
- Enhanced monitoring and data streaming capabilities by integrating **SNS**, **CloudWatch**, and **Kinesis**, boosting operational security, logging and event driven responsiveness.
- Developed a robust **CI/CD** pipeline using **GitHub** for version control, workflows, and Actions, facilitating seamless code integration and continuous delivery and improving build time and dependency management.
- Successfully migrated the database from legacy **SQL** to **PostgreSQL** on an **RDS** instance, significantly improving data retrieval speeds and reducing system costs, while maintaining high availability and performance.
- Developed a scalable, event-driven telematics notification platform using **Kinesis** and **SQS**, converting UDP device pings into SMS, PUSH, or email alerts based on user preferences.

Software Engineer Intern [January 2022 – June 2022]

- Integrated **DynamoDB** for efficient real-time analytics of telematics data, utilized **AWS S3** for data storage, **AWS Athena** for data querying, and **AWS Glue** for orchestrating **ETL** jobs, achieving a 30% reduction in data processing times.
- Implemented Route 53 routing and ELB for DNS management and load balancing, improving network reliability.
- Automated infrastructure provisioning and configuration using **AWS CloudFormation** and **Terraform**, drastically reducing environment setup times for development and testing phases.

Office of Information Technology at UTA - Arlington, TX

Encryption Lead [October 2019 - December 2021]

- Developed and executed a comprehensive data encryption strategy across multiple AWS services using AWS KMS including S3, RDS, and EBS, to protect data at rest and in transit.
- Conducted training sessions for the IT staff on AWS security practices and encryption techniques, enhancing the team's skills and knowledge in cloud security.

Skills:

- Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Terraform/CloudFormation, C#
- Frameworks/Libraries: Node.js, React, Vue.js, Express.js, Spring Boot, Hibernate, GraphQL, REST
- Tools: Git, Docker, Jenkins, MongoDB, SQL Server, PostgreSQL, DocumentDB
- Certificates: AWS – Cloud Practitioner, Solution Architect Associate, Solutions Architect Professional

Education:

- The University of Texas at Arlington Bachelor of Science: Software Engineering
- Honors: Dean's List GPA: 3.88, Maverick Scholar, Magna Cum Laude

Projects:

MavsAbroadJapan: [GitHub.com/mavsabroadjapan](https://github.com/mavsabroadjapan)

Technologies: HTML5, CSS3, JavaScript, Node.JS, Firebase

- Developed a web-app featuring offline functionalities including Japanese-to-English translation, currency exchange, and trip navigation using Firebase.

COVID-19 Tracker App: [GitHub.com/Covid19TrackerApp](https://github.com/Covid19TrackerApp)

Technologies: Flutter, DART, Firebase

- Crafted a cross-platform app displaying SARS-COV-2 stats and relief measures.
- Features donation links for 85 relief funds and an SOS emergency call option.

Car Rental System: [GitHub.com/CarRentalSystem](https://github.com/CarRentalSystem)

Technologies: Python, SQL Server

- Implemented a GUI on Python using Tkinter Library, thereby creating an interface for a car rental system.
- Allowed vendors to manage and maintain an inventory of about 500 vehicles, and customers to rent cars.