ATHENA SU
Software Engineer

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PROFILE

Self-motivated, detail-oriented software engineer with a strong background in microservice development and cloud operations, seeking a Software Engineer position. Passionate about continuous learning and tackling challenges, with a track record of reducing data transformation time by 27%. U.S. citizen with diverse international work experience, poised to thrive and innovate in a dynamic environment.

WORK EXPERIENCE

Software Engineer, Innova Solutions, TW   February 2022 - February 2023
- Worked on Optum's intelligent medical network, a real-time, cloud-based healthcare clearinghouse system, which uses high-availability microservices, has a subsecond response time, and processes millions of requests per day.
- Improved 27% of performance by refactoring the data transform service to support configuration-driven rules using domain specific language in Python and Pydantic to parse and validate data.
- Designed Redis Lua script for atomic transactions that allowed real-time microservice to be 10% more performant by testing with timeit and profile.
- Developed microservice with Rest API, Lambda, Redis, SQS, and EventBridge that streamlined the claim verification process to check for duplicate claims for payers, leading to reduced costs for customers.
- Enhanced E2E testing by creating a service that generated test data for X12 transaction types (eligibility, claims, prior authorization).
- Created a microservice on AWS that utilized SQL queries in AWS Athena, spanning across different S3 accounts, to generate CSV files for customers to verify their billed amounts.
- Other responsibilities: Mentored team in Agile practices and coordinated cross-team dependencies and deliveries between offshore team in Taiwan and teams in the US.

Business Analyst, Creation Food Co., Ltd., TW   March 2017 - October 2021
- Upgraded company website and SEO, increasing new users from 50k to 300k in 6 months
- Analyzed and launched products missing from company portfolio, generating $1MM+ /year in revenue.

SOFTWARE ENGINEERING PROJECTS

Daily Encouragement (ChatGPT + AWS Services): an event-driven and schedulable service that leverages OpenAPI and AWS EventBridge to deliver a quote of encouragement to subscribers each day.
Technologies used: OpenAI API, AWS EventBridge, AWS Lambda, AWS SNS, AWS SAM

ShanShan: a social networking and e-commerce website
Technologies used: CloudFormation, EC2, RDS, ElastiCache Redis, Java, Maven, Spring, Hibernate, JavaScript

SKILLS & CERTIFICATIONS

- **Technical Skills:** Python, Lua, JavaScript, Java, SQL, MySQL, Redis, container technology (ECS)
- **Services, Tools:** AWS services, Postman, JIRA, Confluence, Git, Gitlab CI/CD
- **Languages:** Fluent in Mandarin
- **Certifications:** AWS Solutions Architect- Associate, SAFe 5 Scrum Master , AWS Cloud Practioner

EDUCATION

Certificate in Java & Cloud Services Development, Tibame Programming Institute   August 2021 - January 2022
Bachelor of Arts, National Sun Yat-sen University   September 2013 - June 2016