

Profile

Shuhe Matsukawa

- Address: Sumida-ku, Tokyo
- Mail: shuhe0107ss@gamil.com
- Mobile: 080-1349-3266
- Languages: Japanese (Native), English (Begginer, TOEIC Score: 815)
- Accounts: [Linkedin](#), [GitHub](#)

Professional Summary

An experienced IT professional with over 7 years in system development, AI/ML solutions, and IT infrastructure. Proficient in cloud platforms (AWS, Azure, GCP), team leadership, and full-stack engineering. Skilled in delivering high-quality, scalable solutions, particularly in mission-critical projects. Passionate about learning new technologies, including Generative AI and LLMOps.

Education

- **Bachelor's Degree in Mechanical Engineering,Nagoya University**
Graduation Date: March 2017

Work History

Accenture Japan

Position: IT Consultant / Full-stack Engineer
Employment Period: July 2020 – Present

Project 1: Generative AI for Sales Optimization (Oct 2023 – Present)

Client: Electric Utility Company
Role: Team Lead / Full-stack Engineer
Responsibilities:

- Led a team in developing a Generative AI-based application for enhancing corporate sales activities.
- Designed and implemented both batch and real-time functionalities, including churn prediction with ML and virtual customer Q&A systems with generative AI.
- Designed architecture for cross-functional AI systems spanning multiple Generative AI PoC projects. **Key Technologies:**
- AWS (ECS, S3, SageMaker, Bedrock), Azure (OpenAI Service, AI Search), Python, LangChain, Tableau.
- Achievements:**
- Successfully implemented a scalable architecture, ensuring seamless integration of internal and external customer data sources.
- Delivered project milestones under tight deadlines, coordinating a team of 8 members.

Project 2: Telecommunication Analysis Platform (Oct 2022 – Sep 2023)

Client: Telecom Company
Role: Sub-lead / Data Engineer
Responsibilities:

- Improved machine learning pipelines and ML models for churn prediction and cross-selling.

- Redesigned ETL workflows to reduce processing times and enhanced data reliability. **Key Technologies:**
- AWS (EKS, EMR, S3), Airflow, Spark, Python.

Achievements:

- Reduced ETL processing time by over 25%, optimizing queries and leveraging EMR configurations.
- Developed an ensemble ML model, enabling accurate predictions across dynamically changing sales territories.

Project 3: Analytics API Service for Consumer Insights (Apr 2022 – Sep 2022)

Client: Internal

Role: Infrastructure Engineer

Responsibilities:

- Developed serverless analytics API services for analyzing purchasing data and providing business insights.
- Integrated Tableau for visualization and API Gateway for external data access. **Key Technologies:**
- AWS (API Gateway, Lambda, SageMaker, DynamoDB), Tableau.

Achievements:

- Delivered robust APIs capable of handling multi-tenant requests while maintaining data security.

Hitachi, Ltd.

Position: IT Engineer

Employment Period: April 2018 – June 2020

Project: Credit Card Payment System Development (Oct 2018 – Jun 2020)

Client: Credit Card Company

Role: IT Engineer

Responsibilities:

- Participated in the end-to-end development of a credit card payment system, focusing on high-SLA environments.
- Designed system architecture covering hardware, networking, and application layers. **Key Technologies:**
- On-premises infrastructure, SQL Server, Windows Server.

Achievements:

- Ensured seamless migration of critical systems with zero downtime during go-live.

Certifications

- AWS Certified DevOps Engineer – Professional (2024)
- AWS Certified Developer – Associate (2022)
- Microsoft Certified Azure Administrator Associate (2021)
- AWS Certified Solutions Architect – Professional (2021)
- IPA Certified Applied Information Processing Engineer (2018)

Skills

Cloud Platforms

- **AWS:** EC2, ECS, EKS, Lambda, EventBridge, CloudFormation.
- **Azure:** VM.
- **GCP:** GKE, Anthos.

Programming Languages

- **Proficient:** Python, PowerShell.
- **Basic:** JavaScript, TypeScript.

Data Engineering

- ETL: EMR, Spark, Hadoop.
- Analytics: Athena, BigQuery, Tableau.
- Workflow: Airflow, Stepfunctions.

AI/ML

- **AWS:** SageMaker, Bedrock.
- **Azure:** OpenAI Services, AI Search.
- **GCP:** Vertex AI.
- Others: OpenAI, LangChain, MLflow.

CI/CD & DevOps

- Pipelines: AWS CodePipeline, GitHub Actions, ArgoCD.
- Monitoring: Datadog, Prometheus, CloudWatch.

System Architecture

- Proficient in designing on-premises, cloud-native, and hybrid systems.
- Expertise in scaling microservices and managing high-SLA infrastructures.