

Akira Tanaka

Tokyo, Japan

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Education

Tokyo Institute of Technology

Master of Science in Computer Science

Apr 2018 – Mar 2020 | Tokyo, Japan

GPA: 3.9/4.0

Activities: Algorithm Competition Team Lead, Open Source Software Club, Research Assistant

Relevant Coursework: Advanced Algorithms, Parallel Computing, Machine Learning, Natural Language Processing, Data Mining, Distributed Systems, Information Retrieval

Bachelor's Degree: B.Eng. in Computer Science, Osaka University, GPA: 3.85/4.0

Work Experience

Software Engineer | Rakuten | Apr 2020 - Present | Tokyo, Japan

- Improved search algorithm efficiency by 40% for Rakuten's e-commerce platform serving 100M+ users.
- Implemented real-time recommendation system using collaborative filtering and deep learning models.
- Developed distributed data processing pipelines handling 500TB+ of user interaction data.
- Led migration from monolithic architecture to microservices using Spring Boot and Kubernetes.

Skills

Programming: Java, Python, Go, C++, Kotlin, JavaScript

Algorithms: Search Algorithms, Recommendation Systems, Machine Learning, Graph Algorithms

Big Data: Hadoop, Spark, Kafka, Airflow, ElasticSearch

Cloud: AWS, GCP, Kubernetes, Docker, Terraform

Databases: PostgreSQL, MongoDB, Redis, Cassandra

Tools: Git, Maven, Gradle, Jenkins, GitHub Actions

Other: Microservices, System Design, Performance Optimization, A/B Testing

Certificates

AWS Certified Solutions Architect – Professional

Google Cloud Professional Data Engineer

Oracle Certified Professional Java SE Developer

Certified Kubernetes Administrator (CKA)

Awards

Distinguished Engineer Award – Rakuten Technology Conference 2023

First Place – Japan Algorithm Championship 2021

Best Paper Award – International Conference on Data Engineering 2022