

ATSUHITO (ALEX) KITA

New York, NY

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EDUCATION

Columbia University

Master of Science in Data Science

New York, NY
Sep 2021 - Dec 2022

JASSO scholarship recipient sponsored by the Japanese government. GPA 3.58.

Relevant course work: Computer Vision (CV), Applied Machine Learning, Theoretical Machine Learning, Computer Systems, Statistical Inference, and Data Visualization.

Oregon State University

Bachelor of Science in Computer Science

Corvallis, OR
Sep 2018 - Jun 2021

Summa Cum Laude. GPA 3.99.

Relevant course work: Machine Learning and Data Mining, Database Management System, Mathematical Statistics, Operating Systems, and Analysis of Algorithms.

SKILLS

Programming	Python, JavaScript, SQL, R, TypeScript, Java, Kotlin, C++, Shell, CUDA.
Python Libraries	NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Keras, TensorFlow, PyTorch, OpenCV.
Frameworks	Spring Boot, React.js, Redux, Next.js, Tailwind CSS, ggplot2, dplyr, D3.js.
Databases	MySQL, Redis, MongoDB, Firebase.
Platforms	AWS, Google Cloud Platform, Airflow, Kubernetes, Docker, Heroku, Vercel, GraphCMS, Git, GitHub.

WORK EXPERIENCE

Natural Language Processing (NLP) Lab at Oregon State University

Corvallis, OR
Jun 2020 - Dec 2020

Undergraduate Research Assistant

- Co-authored an NLP research paper with Baidu USA accepted by a top NLP conference (EMNLP 2021).
- Conducted simultaneous translation Transformer model training with Baidu's PaddlePaddle Deep Learning framework.
- Preprocessed corpus datasets with NLTK and Byte Pair Encoding for reducing vocabulary sizes.
- Improved BLEU scores by 6.5% and 3.1% on Chinese-English and Japanese-English translation respectively.

SmartNews International, Inc.

San Francisco, CA (Remote)

Software Engineer Intern

Jun 2022 - Aug 2022

- Built a movie recommendation system that leverages Sentence Transformer encoding based on a pre-trained BERT model.
- Constructed an end-to-end batch-processing recommendation system with Airflow, Hive, S3, Presto, and Python.
- Reduced API costs by 90% which is \$100K per month by optimizing the backend system with Redis cache for location data.
- Implemented an API monitoring board on Datadog with Micrometer written in Kotlin on Spring Boot.

Rakuten Inc.

Osaka, Japan

Software Engineer Intern

Jan 2020 - Mar 2020

- Created reservation and review functions of a new service, Rakuten Carwash, in an agile manner.
- Implemented 5000+ lines of production codes in Java and SQL and test codes in Groovy using Spring Boot and Docker.
- Built an internal data management app with microservice architecture for the marketing department, decreasing data processing time by 60%, written in React.js + Redux and Kotlin.

RELEVANT PROJECTS

Drug Recommender System using LDA and Review Analysis

Dec 2021

- Developed a drug recommender system based on drug reviews data posted by users facing similar condition.
- Predicted rating from reviews available from the UCI Dataset leveraging CNN to get test set accuracy of 84%.
- Built an LDA model from WebMD dataset to create user and drug embeddings to formulate ranking matrix.
- Combined similarity score of test user with predicted ratings from WebMD review feature to get top 10 drug recommendations.

Columbia Venture Community (CVC) - Official Website ([Link](#))

Sep 2021 - Present

Lead Engineer

- Developed a website from scratch where community members can post events and members in Next.js, GraphQL, GraphCMS.
- Managing infrastructure from domain service to email service to deployment environment.

Startup Project: Online Marketplace for Mentoring ([GitHub](#))

Sep 2020 - Jun 2021

Project Leader and Full Stack Developer

- Initiated a business plan and developed the web app where people can get mentored by real industry experts in real-time.
- Recruited three developers by proposing the business plan to College of Engineering at OSU as a capstone project.
- Created web application from scratch by using Next.js, Typescript, GraphQL, and MySQL.
- Executed back-end development from data modeling to deployments.