

ALEX KITA

New York, NY

541-745-9577 | ak4729@columbia.edu | <https://github.com/ktsht>

<https://www.linkedin.com/in/alex-kita/>

EDUCATION

Columbia University

Master of Science in Data Science

New York, NY

Sep 2021 - Dec 2022

JASSO scholarship recipient sponsored by the Japanese government for excellence in academics.

Relevant course work: Applied Machine Learning, Exploratory Data Analysis & Visualization, and Probabilities & Statistics.

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, Mathematical Statistics, Operating Systems, and Analysis of Algorithms.

SKILLS

Programming	Python, Java, JavaScript, SQL, R, TypeScript, Kotlin, C++, Shell, CUDA.
Python Libraries	NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, PyTorch.
Frameworks	Spring Boot, React.js, Redux, Next.js, Tailwind CSS.
Databases	MySQL, PostgreSQL, MongoDB, Firebase.
Platforms	Heroku, Vercel, Google Cloud Platform, AWS S3, Strapi, GraphCMS, Git, GitHub.

WORK EXPERIENCE

Oregon State University - Computational Linguistics Lab

Corvallis, OR

Undergraduate Research Assistant

Jun 2020 - Dec 2020

- Co-authored an NLP research paper with Baidu USA accepted by a top NLP conference (EMNLP 2021).
- Conducted simultaneous translation model training and pseudo-reference generation with PaddlePaddle deep learning framework based on Transformer.
- 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 with wait-k models using pseudo-references compared with full-sentence models.

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 marketing department, decreasing data processing time by 60%, written in React.js + Redux and Kotlin.
- Lectured Git branch management to 20+ full-time employees.

RELEVANT PROJECTS

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

Sep 2020 - Jun 2021

Co-founder and Back-end Developer

- Developed business plan where people can get mentored by real industry experts in real-time instead of taking boring online courses asynchronously.
- Recruited two developers by proposing the plan to College of Engineering at OSU as a capstone project.
- Created web application from scratch by using Next.js, Typescript, GraphQL, and MySQL.
- Managed 3 engineers on GitHub and Kanban board in an Agile style.
- Executed back-end development from data modeling to database management to deployments.
- Integrated Strapi and AWS S3 into app to accomplish fast development.
- Deployed the front-end app with Vercel and the back-end app with Heroku.

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

Sep 2021 – Present

Lead Engineer

- Created a website from scratch where community members can post events and members in Next.js.
- Optimizing GraphCMS to the website for boosting development speed.
- Managing back-end environments from domain to email service to deployment.