

Jaegook (Alex) Kim

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EDUCATION

Georgia Institute of Technology Atlanta, Georgia Master of Science in Computer Science - Machine Learning	Aug 2023 - May 2025 GPA 4.00/4.00
Georgia Institute of Technology Atlanta, Georgia Bachelor of Science in Computer Science - Intelligence and Theory	Aug 2018 - May 2023 GPA 3.86/4.00

WORK EXPERIENCE

Zoox, Amazon Subsidiary Foster City, California <i>ML Infrastructure Engineering Intern</i> <ul style="list-style-type: none">Designed an ETL pipeline, processing 2M daily logs and created dashboards to analyze ML model resource utilizationImproved KPI retrieval speed by 5x by adding new API endpoints and creating fields to streamline data accessImplemented a 85% cache-hit rate data registry to optimize number of requests to cloud and server storage	Sep 2024 - Dec 2024
Volvo Group Greensboro, North Carolina <i>Data Science Intern</i> <ul style="list-style-type: none">Architected an ORM-based database system handling 200+ regulations, automating vehicle compliance verificationReduced CAN data processing time by 10% for vehicle testing with query optimizations and bulk copiesCreated real-time dashboards tracking 1,000+ vehicle tests, enabling testers to quickly identify bottlenecks	May 2024 - Aug 2024
Georgia Tech College of Computing Atlanta, Georgia <i>Teaching Assistant: Graduate Algorithms & Computing in Python</i> <ul style="list-style-type: none">Instructing and assessing 1300+ masters students each semester interested in ML and algorithmsIntegrated auto-personalized feedback system to enhance coding techniques and learning for over 5000 students	Aug 2022 - Present
DuckAI Atlanta, Georgia <i>ML Software Engineering Intern</i> <ul style="list-style-type: none">Built a convolutional neural network to classify formula types from LaTeX documents with 83% accuracyCurated and processed a dataset of 10,000 LaTeX documents and webpages, for robust training and evaluation	May 2023 - Aug 2023
NCR Corporation Atlanta, Georgia <i>Software Engineering Intern</i> <ul style="list-style-type: none">Developed a web app analyzing product demand across 3 gas stations, optimizing inventory costs for higher profitsInitiated a feedback system, collecting 1000+ responses and improving customer satisfaction scores	May 2020 - Aug 2020
SKILLS	
Programming: Python, C#, Java, SQL, C++, JavaScript, Typescript, CSS Platforms: AWS, .NET, Kubernetes, Azure, Docker, Comet ML, OpenSearch, Postman, Google Firebase, Jira, Linux Software/Tools: Tableau, PowerBI, Figma, Git, Bazel, MongoDB, Looker, AutoCAD, S3, EC2, Redis, Redshift, Blazor Frameworks: Numpy, Pandas, Pytorch, Tensorflow, SQLite3, Entity Framework, Flask, Scikit-Learn, Scipy, React, D3,	
RESEARCH/PROJECTS	
Detecting Counterfeit Amazon Products, Natural Language Processing <ul style="list-style-type: none">Fine-tuned BERT and Llama2 on 2,000 Amazon products and 300,000 reviews to classify counterfeit productsAuthored paper on model performance of 65% recall 54% F1-score within a 1:1000 fraud-to-legitimate ratio	Aug 2023 - Mar 2024
Predicting Flight Delays, Data Science & Machine Learning <ul style="list-style-type: none">Deployed an 86% accuracy random forest model by curating and training on a 500,000 flight and weather datasetIntegrated APIs to process live flight and weather data, handling 1,000+ daily requests with sub-second latency	Aug 2023 - Dec 2023
HBCU and GT Collaboration Initiative, Data Science & Research <ul style="list-style-type: none">Led the new academic collaboration initiative between 13 HBCUs and GT to promote educational equalityEvaluated key metrics to identify optimal research partnerships, resulting in a new grant that impacts 100+ students	Aug 2022 - Dec 2023
Hateful Content Detection in Memes, Deep Learning <ul style="list-style-type: none">Designed DL models using BERT, GPT2, XLNet, and ResNet with 60% accuracy determining hateful text/imagesPublished a 6-page report on how the model can prevent the spread of hate speech in online communities	Mar 2023 - May 2023
Jill Watson IBM Design & Intelligence Lab, AI in Education <ul style="list-style-type: none">Increased precision from 71% to 86% using knowledge graphs with Neo4j, connecting similar student questionsIncorporated the BERT algorithm to improve the virtual teaching assistant agent search coverage of the syllabus	Sep 2019 - May 2020