Yuri Kim

(424) 514-9275 | @ yurikim@ucla.edu | in LinkedIn | ☺ GitHub | ⊕ Website | ♦ CA, USA

SKILLS

Technologies: Go, Python, Kubernetes, Docker, Prometheus, Grafana, Jenkins, Groovy, Istio, Kubebuilder, Argo, MLflow, Pyspark, PyTorch, TensorFlow, Scikit-Learn, Pandas, Django, FastAPI, C++, Java, SQL, RDBMS, Linux, Git

EDUCATION

University of California, Los Angeles(UCLA) — Expected Jun 2026
Master of Science in Computer Science

Korea University — Mar 2018 − Feb 2023
Bachelor in Computer Science and Engineering & Statistics;
Graduated as **Top of the Class**, Dean's List, GPA **3.86**

Coursework: Distributed Systems, Databases, Computer Network, Computer Architecture, Natural Language Processing, Deep Learning, Statistical Machine Learning, Convex Optimization, Operating Systems, Algorithms, Data Structure
Club Activities: ACM Hack, Cloud Club, KUCC(Backend, ML & Data Science)

EXPERIENCE

SAP Labs
Software Engineer — Cloud Services Team — May 2023 − Sep 2024
- Developed **cloud services for database** *storage snapshots and multitenancy subscription*(**main contributor**) using Go and Python in K8s environments, deploying updates to canary and production; Served oncall duties.
- Automated **CI/CD and continuous test pipelines** with Jenkins across cloud platforms(AWS, GCP, Azure).
- Implemented **Prometheus dashboards and alerts**, reducing average ticket processing time by 40%, improving overall system response and observability
- Increased unit and e2e(Pytest) test coverage to 90% for system reliability.

Intern — Database SQL Processing Team — Jul 2022 − April 2023
- Led R&D for a learned query optimizer system for HANA **database** *using deep reinforcement learning* with PyTorch, optimizing workloads across multiple datasets(IMDB, TPC-H, TPC-DS) with improvement in compilation time for **19.6%** of queries. [White paper] available - first co-author
- Managed **MLOps** with MLFlow for model tracking and reusable ML pipelines.
- Implemented a built-in procedure to jsonify and extract ASP(Abstract SQL Plan) along with its estimated cardinality and cost for query execution inside the database engine with C++.

OECD(Paris)
Research Intern - Data Directorate — Sep 2021 − Jun 2022
- Participated in a research project aiming to estimate the maritime environmental impacts through **ML ensemble** methods
- Worked with data of **40TB through PySpark** builing pipelines to extract and process maritime activity - partitioning for efficient memory management, used GeoPandas to monitor the location of vessels and modelling for Scikit-Learn models. Resulting in a database and [paper] now published.

Machine Learning and Vision Lab
Undergraduate Researcher — Jul 2021 − Sep 2021
- Implemented a **real-time video recognition system** to predict camera shot angles in sports games using MoViNet and ensemble techniques. Compared its performance with models like X3D, SlowFast, and ResNet.

PROJECTS

Many-to-Many Voice Conversion | *GitHub*
- Many-to-Many voice conversion using Cycle-Consistent VAEs with multiple decoders for non-parallel voice conversion.

Automating OS provisioning with K8s operator patterns | *GitHub*
- Designed and constructed *Kubernetes custom controllers and resources* for OS provisioning on bare metal with unit and end-to-end tests of coverage over 80%.

TestGPT | *GitHub*
- Developed a *test-driven implementation* of nanoGPT and contributed to the educational domain by explaining key aspects of GPT, including multiheads, FFN blocks, and the softmax function, focusing on their impact on convergence speed.

CERTIFICATES

Kubernetes Certified Application Developer (CKAD) — *May 2024*
Design, build and deploy cloud-native applications for Kubernetes