

Peter Yoon

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WORK EXPERIENCE

Software Engineer - Data

Jun 2025 - Present

SAP

Palo Alto, CA

- Achieved up to a 98% reduction in data ingestion time, from 9 hours to 12 minutes, for Spark transformation jobs across multiple lines of businesses by migrating from Structured Streaming to Batch processing and optimizing ingestion logic

Software Engineer Intern

Jan 2025 - Jun 2025

SAP

Newport Beach, CA

- Streamlined large-scale data transformation workflows in SAP Business Data Cloud by designing and developing reusable components of a PySpark-based plugin framework, leveraging Delta Lake and state management
- Built an LLM-driven data generation Proof of Concept (PoC) using Python FastAPI and React that dynamically produces millions of diverse synthetic data entries in minutes for performance testing; presented it to the wider engineering org
- Improved developer productivity and code consistency by automating linting in the workflows repository, and achieved 95% test coverage for Human Capital Management data transformation Spark job by developing unit and integration tests

Student DevOps Engineer

Jan 2024 - Dec 2024

UC San Diego IT Services

San Diego, CA

- Reduced student major provisioning times by 35% through ETL data processing with Python and Apache Airflow
- Improved Grouper logging resource deployment times by 85%, from 35 minutes to 5 minutes, by migrating manually created AWS resources for the Splunk logging architecture to Terraform deployment
- Decreased Grouper infrastructure deployment process times by constructing a Terraform CI/CD pipeline with Atlantis to manage AWS resources (EC2, S3, EFS, IAM, Security Group) and streamlined infrastructure configuration

Software Engineer Intern

Jun 2024 - Sep 2024

RapidSOS

New York, NY

- Developed a serverless event-driven POC to track prolonged Emergency Communication Center (ECC) websocket disconnections using AWS Lambda, DynamoDB and S3 with the Python SDK and Docker
- Reduced deployment costs by 64% by migrating CI/CD artifact triggers of the Emergency Data Exchange (EDX) code release pipelines from polling to event-based mechanisms and alleviating year-old technical debt
- Increased EDX test coverage by 20% through implementing unit and E2E tests for Computer Aided Dispatch connections

Software Engineer Intern

May 2023 - Aug 2023

Kewtea Korea

Seoul, South Korea

- Decreased monthly overhead costs by 32% by creating customer task automation workflows and building an interactive ChatBot API using Machine Learning to summarize task status upon user request
- Reduced workflow processing times by 50% by developing an intermediary REST API server using Python FastAPI to automate workflow triggers and log statuses in a MySQL database hosted on a GCP VM

LEADERSHIP EXPERIENCE

Staff Sergeant

Aug 2021 - May 2023

Republic of Korea Air Force

South Korea

- Resolved conflicts and managed administrative and counseling duties for over 80 Airmen as a Squad Leader
- Translated intelligence meetings and documents during joint military exercises between the U.S. and Korean Air Forces

TECHNICAL SKILLS

Languages: Python, SQL (MySQL, PostgreSQL), C/C++, Java, JavaScript, CUDA, ARM Assembly, MATLAB

Backend: AWS, Terraform, FastAPI, PySpark, Apache Airflow, Git, Bash, SQLAlchemy, pandas, Numpy, pytest, Docker

Frontend: React.js, Tailwind CSS, HTML/CSS, Bootstrap, jQuery, Jest

EDUCATION

University of California, San Diego

June 2025

B.S. Mathematics-Computer Science (GPA: 3.7/4.0)

San Diego, CA

Coursework: Machine Learning, AI Search & Reasoning, Database Management, Computer Networks, Algorithms Analysis