

# Peter Yoon

[jonghyeokyun19@gmail.com](mailto:jonghyeokyun19@gmail.com) | [linkedin.com/in/jhyoon19](https://www.linkedin.com/in/jhyoon19) | (619) 772-0251 | San Diego, CA | [github.com/peterjhyoon](https://github.com/peterjhyoon)

---

## EDUCATION

**University of California, San Diego**

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

Expected Graduation: June 2025

San Diego, CA

---

## WORK EXPERIENCE

**Software Engineer Intern**

*SAP*

**Jan 2025 - Present**

*Newport Beach, CA*

- Designed and developed components of a scalable PySpark-based plugin framework to support data transformation workflows across multiple Lines of Businesses (LoBs) in SAP Business Data Cloud
- Built an AI-driven test data generation PoC using React and Python FastAPI that dynamically produces millions of diverse synthetic data entries in minutes to assist in performance testing
- Achieved 95% test coverage for HCM data transformation workflows in Data Lakes by developing unit and integration tests

**Student DevOps Engineer**

*UC San Diego IT Services*

**Jan 2024 - Dec 2024**

*San Diego, CA*

- Improved Grouper logging resource deployment times, 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
- Reduced student major provisioning times by 35% through ETL data processing with Python and Apache Airflow

**Software Engineer Intern**

*RapidSOS*

**Jun 2024 - Sep 2024**

*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**

*Kewtea Korea*

**May 2023 - Aug 2023**

*Seoul, South Korea*

- 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
  - Decreased monthly overhead costs by 32% by creating customer task automation workflows and building an interactive ChatBot API to summarize task status upon user request
- 

## LEADERSHIP EXPERIENCE

**Staff Sergeant**

*Republic of Korea Air Force*

**Aug 2021 - May 2023**

*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
- 

## PROJECTS

**TradeSense** | *Python, FastAPI, React.js, Tailwind CSS, Docker, OpenAI API*

- Developed a full-stack web app in a team of 4 to evaluate stock volatility using LLM-powered sentiment analysis

**DevJournal** | *JavaScript, CSS, HTML, GitHub Actions, Jest, ESLint*

- Led a team of 12 to develop a full-stack local first developer journal, incorporating a CI/CD pipeline, E2E testing and linting
- 

## 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