Changseok (Kevin) Lim

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EDUCATION

University of California, Berkeley, *Bachelor of Arts*. *Data Science* (GPA: 3.66/4.00) **Dec 2025**

- **Coursework:** Data Engineering, Data Structures, Data Mining & Analytics, Principles and Techniques of Data Science, Probability, Machine Learning, Econometrics, Microeconomics

EXPERIENCE & RESEARCH

Backend Engineer **Aug 2025 - Dec 2025**
Zep Quiz *Berkeley, CA*

- Built an end-to-end automation pipeline that pulls trending sports topics (Google Trends), generates multiple-choice quiz questions (OpenAI GPT-5-mini API), renders short-form videos, and uploads to YouTube Shorts.
- Achieved a 93% success rate (up from 65%) by prompt engineering the generation layer for structured JSON output and building a validation-based retry mechanism to handle non-deterministic failures (OpenAI GPT-5.1 API).
- Scaled production to 130+ daily YouTube Shorts by orchestrating n8n workflows with automated scheduling, retries, and conditional branching.

Software Engineer Intern **May 2025 - Aug 2025**
StylistGem *Remote*

- Designed and deployed a secure user management system with FastAPI and Auth0, enabling role-based access for 5+ user types.
- Built a robust data layer by implementing 10+ SQLModel schemas (Booking, Payment, Review, Notification), ensuring data consistency and relational integrity across services.
- Streamlined scalability of the booking platform by modularizing 20+ API endpoints and CRUD operations, reducing deployment time by 40% and enabling support for a multi-service ecosystem handling 500+ transactions per week.

Undergraduate Research Assistant **May 2024 - May 2025**
Model Predictive Control Lab *Berkeley, CA*

- Co-authored paper accepted at L4DC 2025, introducing a generalized Nash equilibrium approach for multi-agent motion planning.
- Created and fine-tuned neural networks using PyTorch, achieving a 15% boost in predictive accuracy via hyperparameter optimization and model selection.
- Implemented a decentralized algorithm that reduced computational complexity by 25%, enabling real-time control with a prediction horizon of 10 steps and a sampling time of 0.1 seconds.

PROJECTS

Stock Market Prediction (S&P 500) | *Python, pandas, scikit-learn, HuggingFace* **Nov 2025- Dec 2025**

- Built an S&P 500 closing-price prediction pipeline using HuggingFace's FinBERT news-sentiment features and a Linear Regression model, achieving RMSE of 66.05 on a time-ordered test split.

Cloud Resume Project | *Python, Azure, HTML, CSS* **Dec 2024 - Jan 2025**

- Maintained 99% API uptime by deploying serverless Azure Functions with Azure Table Storage.
- Deployed a responsive static website to Azure Static Web Apps, serving over 150+ visitors with integrated CI/CD pipelines using GitHub Actions to automate deployment and updates.

CIFAR-10 Image Classification with Transfer Learning | *Python, PyTorch* **Mar 2025 - Apr 2025**

- Fine-tuned a pre-trained convolutional neural network (CNN) on the CIFAR-10 dataset using transfer learning, achieving 85% test accuracy by training only the classifier head (200K vs. 11M parameters).

Spam Email Classification | *Python, scikit-learn* **Jan 2025 - Feb 2025**

- Developed an SVM classifier with 98% accuracy on 8,348 labeled samples.

SKILLS

Programming Languages: Python, Java, SQL, R, Linux, HTML/CSS
Tech Stack: MongoDB, PyTorch, scikit-learn, Pandas, Power BI, Matplotlib, Carto, Microsoft Azure, AWS, Git
Languages: English (native), Korean (bilingual proficiency)