

# Kevin Lin

LinKevin281@gmail.com | 518 334-9240 | [Github.com/linkevin281](https://github.com/linkevin281) | [Linkedin.com/in/Kevin-Q-Lin](https://linkedin.com/in/Kevin-Q-Lin) | [Kevin-Q-Lin.me](https://kevin-q-lin.me)

## EDUCATION

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### Dartmouth College

Hanover, NH

Bachelor of Arts – Computer Science and Music

September 2020—June 2024 (Expected)

- **GPA:** 3.8/4.0 – Honors List
- **Coursework:** Software Implementation and Design (TA), Deep Learning, Multi-Modal Generative AI, Robustness and Generalization, Machine Learning Statistical Analysis, Music and AI, Operating Systems, Compilers, Computer Architecture, Digital Electronics, Data Structures and Algorithms, Algorithms, Discrete Math, Technology Ethics
- **Clubs and Organizations:** Dartmouth Chamber Orchestra (President), Dartmouth Outing Club/People of Color Outdoors (Chair), Alpha Chi Alpha Fraternity (House Manager), Ledyard Canoe Club, Dartmouth Climbing Team

## WORK EXPERIENCE

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### Amazon || React/TS - GraphQL - Lambda - AWS CDK (IaaS) - Docker

San Diego, CA

Software Development Intern

June 2023—September 2023

- Migrated Java/Spring API to microservice federated GraphQL solution vending data to AI/ML and data viz teams.
- Conceived asynchronous data batching mechanism, reduced load on new API by 8x with millisecond latency loss.
- Reworked data viz widget serving nearly 100% of all *Amazon.com* account investigations, reducing p95 by 75%.

### Aurora Insight (Acquired by Maxar) || Python - React - FastAPI - PostgreSQL - S3 - Docker

Denver, CO

Software Engineering Intern

October 2022—December 2022

- Implemented full-stack portal to remotely control/monitor terrestrial RF sensor fleet deployed across 30+ cities.
- Used WebSockets and SSE for real time communication between deployed sensors, database, and web app.
- Wrote Linux daemons for multithreaded Python scripts onboard sensors to sample terabyte-scale IQ RF data.

### TomTom Global Leads Search || Python - Django - PostgreSQL - Spark - Kafka - Zookeeper

Remote

Software Engineering Intern

January 2022—March 2022

- Developed stream data pipeline for real time road and traffic conditions updates in multiple languages/countries.
- Created feedback pathways to automatically configure stream parameters, increased positive hit rate by 360%.

## PROJECTS

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### [HR-VQLoRA](#) – Novel Adaptor with Hierarchical Residual Quantization || *PyTorch - Transformers - PEFT* Spring 2024

- Beat SOTA QLoRA (2023) in fine tuning with 8.5% better performance on [MMLU](#) with LLaMA 2 on [OASST1](#).
- Directly implemented method into Huggingface [Transformers](#) and [PEFT](#) libraries for scale (PR coming soon).

### [Podlite](#) – Your Daily Podcast Aggregator || *Python - Django - S3 - SQLite - Snowflake - Pinecone*

Spring 2024

- *HackDartmouth 2024 Runner Up*. Promptable podcast curator that aggregates similar clips from your favorite podcasts.

### [Discite.tech](#) – Learning for the Modern Attention Span || *Swift - Express - TS - MongoDB - Pinecone - EC2 - Nginx* Fall 2023

- Solo ideated winning proposal for 6-month Senior Implementation project for optimized short-form video learning.
- Led five engineers as TPM to architect IOS frontend, Stream and Data APIs, AI/DL scraping and clipping pipeline, and data/object storage; designed agile CI/CD workflows with GH actions and E2E tests; and deployed on AWS.

### Spyfall Offline || *Swift*

Summer 2021

- Developed offline version of the popular party game using SwiftUI with 77k+ downloads on the Apple App Store.

## LEADERSHIP EXPERIENCE

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### Dartmouth Chamber Orchestra

Hanover, NH

President

March 2021-Ongoing

- Founded scholarship program to promote accessibility in Performing Arts with 50+ accepted applicants per annum.
- Rebuilt Dartmouth's only student-run ensemble and introduced over \$15,000 of annual funding for the orchestra.

## LANGUAGES & SKILLS

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**Coding Languages:** Python • Java • C • C++ • Golang • Typescript/Javascript • Swift • VHDL • X86 Assembly

**Technical:** AWS, MongoDB, PostgreSQL, Redis, GraphQL, Express, Django, Flask, FastAPI, React, Gin, Node, Spring, PyTorch, GDB, LLVM, GDB, Vivado, Kafka, Zookeeper, Spark, Docker, Git, Transformers, PEFT