

Kevin Joel Antony Jayaraj

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EDUCATION

University of Texas at Dallas — Richardson, TX

Expected Graduation: May 2029

Bachelor of Science in Computer Science

Related Coursework: Object-Oriented Programming, Technical Writing, Intro to Data Structures and Algorithms in Java (Current), Probability and Statistics in Software Engineering (Current), Computer Architecture (Current)

EXPERIENCE

Software Engineer - Non-Profit Technical Support (NPTS) - (Current)

Aug 2026 – Present

- Building a support ticket management system for 20+ nonprofit clients using React, Next.js and SQLite, replacing a manual process

Extern — SQL & Database Architecture, Breaking Games - (Current)

Aug 2026 – Present

- Designing a normalized, scalable SQLite schema and dimension tables integrating 6 e-commerce data sources into a single customer-journey view, supporting a backend reorder-recommendation feature across 117 products
- Building a channel-attribution data model connecting \$37K in Meta ad spend to \$61K in sales to inform a Q4 budget allocation plan

Research Assistant - University of Texas at Dallas — Advisor: Dr. Guoping Xiong

Jan 2026 – May 2026

- Reviewed and synthesized 3 peer-reviewed papers on physics-informed neural networks to support state-of-health prediction for lithium-ion batteries
- Prepared a 15-minute technical report translating research findings for lab stakeholders
- Evaluated existing deep learning architectures to identify optimal prediction models

PROJECTS

Project 64 (Current) | Software Engineer | Python, FastAPI, Javascript, React

- Engineering a full stack chess game with a python/FastAPI backend and React frontend and python-chess library for backend logic
- Building FastAPI endpoints to expose move validation and board resets from python-chess for consumption by the frontend

Peter Drury Bot | Software Engineer | Python, REST APIs, GitHub Actions

- Defined, developed, tested, and maintained a Python backend service polling a REST API every 2 hours at \$0/month cost, using state-diffing logic to eliminate duplicate alerts
- Analyzed and fixed 350+ failed cron runs, adding error handling for malformed/stale API responses to improve system reliability
- Managed source control with Git and deployed via a GitHub Actions CI/CD pipeline to 5 users through the Google Chat API

VocaLift | Team Member | Technical Presenting, Data Analytics

- Led the presentation development for a team of 6, pitching to a live audience of 100+ people and judges from Google/Apple/Microsoft, winning 2nd place in a 12-week-long competition.
- Co-proposed synthetic augmentation for data collection, increasing the dataset size by 400%, significantly enhancing model accuracy
- Owned script, slides, and coordination with co-lead; created architecture diagrams of the data pipeline for team and stakeholder alignment

SKILLS

Programming Languages: Python, Javascript (pursuing), C++, Java (pursuing), SQL (Pursuing)

Backend & APIs: REST APIs / RESTful Services, FastAPI (Pursuing)

Front-End: React (Pursuing), HTML, CSS

DevOps & Version Control: Git, GitHub Actions (CI/CD)

Databases: SQLite (Pursuing)

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming