

# Kevin Zhang

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## EDUCATION

### Texas A&M University

BS in Computer Science, Minor in Statistics and Math

May 2026

College Station, TX

Cumulative GPA: 4.0/4.0

Honors: Dean's Honor Roll, Engineering Honors (EH), Dean's Excellence Award Semi-finalist

Coursework: Data Structures & Algorithms, Software Engineering, Computer Systems, Discrete Math, Linear Algebra

## EXPERIENCE

### AI/ML Intern

Aug 2024 – Dec 2024

Sandia National Laboratories

Remote

- Developed **knowledge graph (KG)** generation pipeline with internal **LLM** microservices to allow **multi-hop reasoning** in 3-stage **retrieval augmented generation (RAG)** pipeline
- Extracted **30+** domain-specific seed topics from text corpus with **BERTopic** for KG subgraph creation
- Achieved **100%** schema-compliant LLM outputs via **prompt engineering** and **grammar-constrained decoding**
- Packaged KG generation logic into reusable, **object-oriented Python** modules used by **30** developers

### Software Engineering Intern

May 2024 – Aug 2024

Sandia National Laboratories

Albuquerque, NM

- Redesigned **30** year old **Java** data analysis suite architecture, cutting developer onboarding time by **3 weeks**
- Used **MATLAB** profiler to find bottleneck in data preprocessing script, leading to **90%** execution time reduction
- Built **Java** class to interface with **Javalin REST API**, enabling **multithreaded** network communication
- Reduced logic errors by **50%** via integration and regression testing in **Jenkins CI/CD** pipeline

### Undergraduate Teaching Assistant

Jan 2024 – Present

Texas A&M University

College Station, TX

- Leading data structures & algorithms recitations for **60** students semiweekly
- Mentoring **15+** students weekly in **C++** assignments, leading to **80%** reduction in assignment errors
- Teaching students core CS concepts including **vectors**, **trees**, **graphs**, **sorting algorithms**, and **recursion**

### Full Stack Developer Intern

Jun 2022 – Aug 2022, May 2023 – Aug 2023

Vertical Automation and Information Technology

Katy, TX

- Built CRM system with **ASP.NET MVC** serving **10** users, improving employee efficiency by **50%**
- Optimized **MySQL** database performance by eliminating **1,000** duplicate records, improving query speed by **10%**
- Designed scalable **SQL** database architecture to support complex entity relationships
- Created role-based authorization system with **Entity Framework** to facilitate project management for managers

## PROJECTS

### Credit Card Recommender (Best Financial Hack) | Python, Jupyter, Flask, React, LangChain

Nov 2024

- Developed **LLM-based** credit card recommendation system at **24-hour** hackathon, competing against **14** teams
- Devised **chain-of-thought (CoT)** recommendation prompt that takes user spending habits into account
- Augmented recommendations with self-curated **JSON** database containing statistics on **50** popular credit cards

### Point of Sales System | React, TypeScript, Java, Spring Boot, PostgreSQL, JDBC, Git

Sep 2024 – Nov 2024

- Designed modular **React** components and managed application state with **React hooks** (useState, useContext)
- Orchestrated integration of **Google OAuth API** to manage authentication/authorization
- Implemented **JDBC** backend to query **PostgreSQL** database and map results to **Java** data transfer objects
- Reviewed **60+** GitHub pull requests, leading to **80%** reduction in code smells

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, TypeScript/JavaScript, C#, SQL, HTML/CSS, MATLAB, Bash

**Frameworks:** React, Bootstrap, Flask, JUnit, ASP.NET, Entity Framework, Spring Boot

**Libraries:** Numpy, Pandas, Matplotlib, LangChain, OpenAI, Pydantic, TensorFlow

**Developer Tools:** Linux, Git (GitHub, Gerrit), Anaconda, Jupyter, Azure DevOps, Jenkins, Vim, Docker

**Databases:** PostgreSQL, MySQL, Neo4J