

# Kian Lak

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## Software Engineer Intern

May 2025 – Aug. 2025

*Paycom*

*Irving, TX*

- Implemented a secure login system for internal tooling by integrating **LDAP** and **Active Directory**, enabling authentication and access control for **10,000+** developers, significantly improving security and maintainability
- Built and deployed a notification system to alert internal users of all production-breaking changes of our application, projected to reduce response time by up to **60%** and enable faster recovery during critical releases
- Optimized internal **React** application by implementing code splitting and bundle size reduction, decreasing initial load time by **33%** and improving overall user experience for **1000+** developers

## Software Engineer

Jun. 2023 – Sep. 2024

*Cognizant*

*Plano, TX*

- Engineered a high-performance microservice **REST API** with **Java Spring Boot**, designed for scalable data processing with strict validation and modular deployment, improving reliability across the backend system
- Integrated **AWS CodePipeline** and **AWS EC2** to automate deployment of **REST APIs**, increasing infrastructure reliability and reducing manual errors in delivery workflows for **100,000+** users
- Utilized **Redis** for caching frequent **API** responses, significantly reducing latency by **41%** and improving response speed in **Java-based microservices** deployed via **AWS**

## Software Engineer Intern

May 2022 – Aug. 2022

*Interactor*

*Remote*

- Designed a machine learning-based error detection module with **82%** accuracy to scan client invoices and identify anomalies, helping prevent costs of up to **\$5000 - \$10,000** per client
- Leveraged precision PDF parsing tools to detect document structure enabling accurate extraction of structured data from unstructured documents and reducing manual processing time by over **70%**

## Software Engineer Intern

May 2021 – Aug. 2021

*Zeal IT Consultants*

*Dallas, TX*

- Developed a distributed, object-oriented chat system in **Python** using socket programming, asynchronous message queuing, and session persistence allowing **100+** concurrent users to chat with low-latency performance
- Built a **Python REST API** that filtered and prioritized results using data-driven algorithms and leveraging collected metrics to enhance relevance - leading to a **84%** accuracy
- Proposed and implemented **front-end** and **back-end** features that enhanced the performance, usability, and responsiveness of Zeal IT Consultants' customer-facing website, improving overall user engagement

## PROJECTS

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### Reinforced Learning Tic Tac Toe | *Python*

- \* Designed and trained a reinforcement learning agent using **Q-learning** for tic-tac-toe, enabling the model to learn optimal strategies through self-play and dynamic reward adjustments
- \* Optimized a classification model with **scikit-learn**, tuning hyperparameters to reach a **5% loss rate**
- \* Built a simulation environment in **Python** to train and test reinforcement learning agents, applying **object-oriented principles** and modular design patterns for scalability

### LifeProd | *Electron, React, HTML, CSS, Vite, Spring Boot, Maven, Java, MySQL, REST API*

- \* Developed a secure system with session management and security filter chains, ensuring protection of user data
- \* Designed and implemented a data-driven recommendation algorithm that analyzes user fitness activity to provide personalized exercise guidance
- \* Built a responsive fitness tracking interface using **React** and **REST APIs**, optimizing **fullstack** performance

## TECHNICAL SKILLS

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**Languages:** Java, Python, Javascript, Typescript, MySQL, PostgreSQL, HTML, CSS, C, C++, C#

**Frameworks:** React, Angular, Spring Boot, Next.js, ASP.NET, Node.js, Vite, JUnit, Jest, Electron

**Libraries:** PyTorch, NumPy, Scikit-learn

**Tools & OS:** Git, Docker, VS Code, Redis, AWS, S3, EC2, Elastic Beanstalk, CodePipeline, Linux, Window

## EDUCATION

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**University of Texas - Dallas**

Richardson, TX

*Master of Science in Computer Science*

*Aug. 2024 – Present*

**University of Texas - Dallas**

Richardson, TX

*Bachelors of Science in Computer Science — Cum Laude*

*Aug. 2019 – May 2023*