

Franklin Dai

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EDUCATION

Rice University

Bachelor of Science in Computer Science

August 2021 – May 2025

GPA 3.75/4.00

Relevant Coursework Operating Systems, Algorithmic Robotics, Data Structures & Algorithms I & II, Computer Systems, Concurrent Programming, Program Design, Discrete Math, Honors Linear Algebra, Databases, Compilers

EXPERIENCE

JPMorgan Chase

Software Engineer Intern - Credit Risk Team

June 2024 - August 2024

Houston, TX

- Incorporated legacy software into new application, streamlining cross-system functionality and increasing user efficiency by **60%**
- Developed REST API endpoints for efficient data retrieval and frontend integration
- Architected and implemented a modular web application using MicroUI via Webpack's Module Federation
- Leveraged Apache Kafka for asynchronous processing and real-time rendering, **enhancing performance by 30%**
- Deployed on Kubernetes cluster, ensuring high availability and horizontal scalability

RiceApps

Team Lead

May 2023 – Present

Houston, TX

- Collaborated with the Houston Ballet Foundation to enhance the annual Nutcracker Market experience for **over 100,000 visitors** and connect the audience with the Houston Ballet
- Developed a web application to streamline navigation through the list of available vendors
- Facilitated the transition from traditional physical maps to an interactive online map utilizing MappedIn software, providing a more convenient and engaging way for visitors to explore the venue

Rice University

Teaching Assistant

August 2023 - December 2023

Houston, TX

- Mentored students in multi-month Java project to develop automated test-suite creation tools
- Facilitated weekly office hours for over **300** students on OOP program design and debugging help in Java

Paycom

Software Developer Intern

May 2023 – August 2023

Grapevine, TX

- Engineered a real-time client chat support feature for **37,000+** client companies
- Designed and implemented MySQL database system for efficient storage and retrieval of chat logs
- Led development of an admin dashboard, enabling real-time monitoring of ongoing chats and analysis of specialist performance metrics

PROJECTS

BeCode | Code for Good Hackathon, 1st Place | *React, Javascript, ExpressJS, MongoDB*

- Led student team in developing a social media platform to foster engagement in the All Star Code community
- Implemented an **embedded code editor** for users to complete daily coding challenges
- Designed and built a backend API using MongoDB to store and manage challenge solutions

OwIDB | *Go*

- Created a network accessible NoSQL document database using Go
- Accessible through REST-API, the database stores JSON documents that support operations for creating, modifying, retrieving, monitoring, and deleting data
- Implemented a concurrent skip list as the underlying data structure for efficient data storage and retrieval, **ensuring high-performance concurrent access** to the database

TECHNICAL SKILLS

Languages: Python, Java, Go, C, OCaml, Javascript/Typescript, SQL, HTML/CSS

Frameworks: React, SvelteKit, Spring Boot, NodeJS, ExpressJS, NextJS, TailwindCSS, Jest

Libraries/Developer Tools: Git, MongoDB, SocketIO, Kubernetes, Docker, Webpack, Apache Kafka