# Franklin Dai

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## EXPERIENCE

### JPMorgan Chase

*Software Engineer I - Credit Risk Team*   *February 2025 - Present*
- Implemented automated deployment solution integrating with Jenkins, reducing deployment time by 75%
- Migrated complex REST API endpoints to GraphQL, reducing payload size and improving query efficiency
- Led UI enhancement initiative that included both modernizing existing screens and developing new interfaces

*Software Engineer Intern - Credit Risk Team*   *June 2024 - August 2024*
- Incorporated legacy software into new application, streamlining cross-system functionality and reducing manual workflow time by **60%**
- Developed REST API endpoints for efficient data retrieval and frontend integration
- Built modular web application using Webpack Module Federation, enabling independent deployment of UI components
- 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 – May 2025*
- Led development of educational mobile app for hearing-impaired youth, creating interactive games that improved language development outcomes
- 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 using MappedIn, providing a more convenient and engaging way for visitors to explore the venue

### Paycom

*Software Developer Intern*   *May 2023 – August 2023*
- Engineered a real-time client chat support feature for **37,000+** client companies
- 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

**OwlDB** | *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, Cypress
**Libraries/Developer Tools**: Git, MongoDB, SocketIO, Kubernetes, Docker, Webpack, Apache Kafka

## EDUCATION

### Rice University   December 2024
*Bachelor of Science in Computer Science*