

YIFAN WANG

New York, NY | 929-501-9043 | yifan00925@gmail.com | www.linkedin.com/in/yifanwang00925
chatbd Deplo

Education

Columbia University

Sep 2022 - Dec 2023

M.S. Electrical Engineering, GPA: 3.8

New York, NY

Course: Cloud Computing, User Interface Design, Computer Network, Intro to DB, Natural Language Processing

University at Buffalo

Jan 2019 - May 2022

B.S. Computer Science, GPA: 3.8; Minor in Mathematics, GPA: 4.0

Buffalo, NY

Course: Operating System, Programming Language, Algorithm Analysis& Design, Software Engineering, Web Application

Skills

Languages: Python, TypeScript, Java, JavaScript, Scala, C, C++, C#, Go, HTML5/CSS, R

Frameworks & Tools: React, Vue, Angular, Django, Node, Flask, Express, Docker, TensorFlow, PyTorch, Git, Kafka

Database: MySQL, MongoDB, PostgreSQL, Redis, Spark

Other Technologies: Linux/ Unix, AWS(Elastic Beanstalk, EC2, S3), GCP, Azure(Azure blob Storage)

Work Experience

Full Stack Engineer

New York, USA

Voyapay (Software Development)

Dec 2023 - Present

- Implemented a highly available architecture supporting **5 QPS** for the **VoyaPay virtual credit card project**, encompassing user management, key management, virtual card operations, transaction processing, and ledger management, ensuring robust security, scalability, and maintainability of the system.
- Developed backend services using **Nest.js**, handling user authentication, card management, and transaction history queries. Designed and implemented multiple **authentication guards** to enhance **system security** and ensure the safety of user operations.
- Built user interfaces with **React** that interact with the backend, implementing responsive layouts to improve user experience.
- Designed and **optimized databases** using PostgreSQL, responsible for data model design, index optimization, and complex query performance tuning. Integrated **Redis** to further enhance data query efficiency.
- Containerized the entire application using **Docker**, ensuring consistency between development and production environments, and enhancing application portability. Deployed the system on AWS.

Backend Engineer

Redan, GA

The Donovan's Venom (Piano Game Team)

Aug 2023 - Dec 2023

- Implemented **distributed system** that handles high concurrency that supports more than **10K users** during peak hours.
- Implemented functionalities including payment processing and music creation using **NodeJS**.
- Developed a **email microservice** to notify all the game users to send notification.
- Used **Redis** to improve data querying, significantly enhancing response times for frequent and complex queries.
- Abstracted keywords from **streaming video** and generated real-time reports to identify and track trends.
- Built a user login service using cookie sessions, **JWT**, and email verification to handle user sign-up and login functionalities.
- Integrated a third-party **chatbot API** and deployed to **AWS EC2**.
- Led collaborative efforts with business team and product team, ensuring efficient data integration.