Yingtong(Wendy) Pan

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Education

Georgia Institute of Technology   **Aug 2022 – May 2025**
Bachelor of Science in Computer Science 3.93/4.00   *Atlanta, GA*
- **Core Courses:** Data Structures and Algorithms, Design and Analysis of Algorithms, Systems and Networks, Database Systems, Machine Learning, Artificial Intelligence, Computer Vision, Information Security, Natural Language Processing

Programming Skills

- **Languages**: Java, C, Python, SQL, C++, Javascript, HTML, CSS, Typescript, Dart, GO, Rust
- **Database**: MySQL, MongoDB, DynamoDB, Redis, PostgreSQL
- **Frameworks/Library**: SpringBoot, MyBatis, SpringMVC, React.js, Vue.js, Node.js, Flutter, Express.js
- **Tools**: Git, AWS, Postman, Maven, Docker, Firebase, Jira, Android Studio

Experience

Gyfr   **June 2024 – March 2025**
Software Engineer Intern   *Remote*
- Implemented UI with **React** and **TypeScript** along with **Material UI**, ensuring a responsive and user-friendly design for the MVP.
- Integrated **Firebase API**, **Firestore**, and **Storage** for preloaded data and handling updates with helper methods and middleware.
- Creating robust error handling mechanisms to enhance application reliability and user experience.
- Collaborating within a team using **Agile methodology (Kanban)** to prioritize tasks and enhance productivity and communication.

Projects

GreenPlate Food Management Application
- Developed a user-centric application in **Android Studio** using **Java**, employing **Agile methodology (Scrum)** and **GitHub**, focusing on efficient state management with asynchronous functions, and incorporating advanced design principles and patterns.
- Integrated **Firebase's real-time database** and authentication to enhance application robustness and functionality, employing advanced database management practices.
- Led comprehensive testing efforts, achieving 100% coverage across 35 test cases to ensure software reliability and performance.

WPNotes Web App
- Developed a full stack notes app using the **MERN** stack, enabling users to securely create, edit, and manage personal notes with secure authentication.
- Optimized the application's performance by efficiently managing state and database interactions.

User Management System
- Revamped UI aesthetics using **Vue** and **Element UI** to streamline user, role, and task management; ensured seamless backend communication with **Axios** which improved data retrieval speed and enhanced user experience.
- Structured the architecture using **SpringBoot**, while integrating **SpringMVC**, **MyBatis** and **MyBatis-plus** to facilitate efficient database operations.
- Integrated **Redis** for caching and **MySQL** for database to store user information and roles.

Serverless Photo Gallery Application
- Built a web interface using **HTML** and **JavaScript**, hosted via **S3 bucket** static website hosting.
- Leveraged **AWS API Gateway** to create endpoints and deployed lambda functions in **Python** for processing and managing backend requests including sign-up, email verification, login, getting details of photos, adding photos, searching photos.
- Integrated **AWS Cognito** for user pool management, utilized **DynamoDB** for storing records of photos, and configured S3 buckets for storing photos.