

JIAYING YU

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SUMMARY

Enthusiastic software engineer with an MS in Technology Management from New York University, graduating May 2024. As a Full Stack Engineer Intern at Nexa AI, I spearheaded the frontend development of three major products using **React** and **JavaScript**, culminating in a top 3 ranking in upvotes on Product Hunt within two weeks of launch, and achieving over 10,000 views and nearly 1,000 active users in the first month. My expertise includes iterative development, **RESTful API** integration with **Python Flask** and **Java Spring**, database design in **MongoDB**, and deploying on **Google Cloud Platform**. Eager for an entry-level and New Grad software engineering role to further hone my skills.

EDUCATION

New York University, New York, NY Expected May 2024
M.S. in Management of Technology

University of California Riverside, Riverside, CA Sep. 2018 - Sep. 2021
B.S. of Business Administration, Minor in Applied Statistics. *Cum Laude, 4 semesters Dean's Honor.*

PROFESSIONAL EXPERIENCE

Nexa AI San Jose, CA (Remote)
Full Stack Engineer Intern Oct 2023 - Present

- Led the web development of three major products using **HTML**, **CSS**, and **JavaScript** (focusing on the **React framework**), ensuring effective mobile adaptation across various mobile devices.
- Managed user data and product content in **MongoDB**, ensuring optimal data storage, integrity, and performance through effective manipulation, cleaning, and optimization techniques by using **Python**.
- Utilized **Google Analytics** for user behavior tracking and analysis, optimizing user journey paths, which led to over 15,000 customer visits and attracted 943 unique users within a month, resulting in a steady growth of the user base.
- Developed **RESTful APIs** for search engines and database interactions, implemented in **Python (Flask)** and **Java (Spring)**, integrated with frontend, and tested for performance.
- Collaborated with product managers on iterative product development, achieving a user engagement uplift by increasing the average page views to 26.02 per user, indicative of enhanced user stickiness and refined product details.

PROJECT

Apartment Management System <https://youtu.be/ONMcdt2MSU0> June 2023

- Developed and implemented the backend services based on **Spring Boot** to facilitate tenant and manager access to amenities and service requests including reservation, payment, and other features using **RESTful API**.
- Partnered with the backend team in the end-to-end process from database design to code implementation.
- Implemented token-based server side user authentication based on the **Spring Security framework**.
- Leveraged **MySQL** for efficient and reliable data storage in the database.

RoomNet: Digital Accommodation Booking Solution Apr 2023

- Built a web application using **React**. Bootstrap the development with mature component library AntD.
- Implemented backend services based on **Spring Boot** to support stay upload, delete, search functionality.
- Used **MySQL** to store user-generated data and utilized **Google Cloud Platform** to store media files for update.
- Created geo index by Elasticsearch to support geo-based stay search based on user's selected locations.
- Deployed the backend service to Google App Engine for better scalability and reliability.

MusicMingle: Minimalist Spotify Favorite App March 2023

- Designed a **Kotlin** Spotify favorite app by leveraging **Android** JetPack Library and Hilt Dependency Injection.
- Implemented the BottomBar & App Navigation using Jetpack Navigation component.
- Created a mock **RESTful API** json-server and used the Retrofit to handle requests.
- Built the feed/album/favorite UI in Jetpack Compose following MVVM architecture.
- Integrated the Google Exoplayer to handle the global music playback.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, SQL, R, Kotlin

Web/Mobile Development: HTML & CSS, React, Android, Node.js, Spring, Hibernate, Java Servlet

Databases and Cloud: MongoDB, MySQL, AWS, Google Cloud Platform