

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

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Dear Prospective Employers,

I am writing to express my keen interest in software development opportunities as I prepare to graduate with an MS in Technology Management from New York University in May 2024. My journey as a Full Stack Engineer Intern at Nexa AI, coupled with my academic background, has shaped me into a skilled and versatile software engineer, ready to contribute meaningfully to an innovative and dynamic team.

At Nexa AI, I was entrusted with the frontend development (React) of three pivotal products, Nexa ai and Seekai.tools, both successfully launched on Product Hunt. My involvement spanned from initial concept to full-scale deployment, significantly sharpening my skills in building robust applications from the ground up. I played a pivotal role in RESTful API integration, utilizing Python Flask and Java Spring frameworks. In my role, I was responsible for data management, using MongoDB and Google Cloud Platform for efficient data storage. I utilized Python for sophisticated data manipulation and cleaning within MongoDB, ensuring data integrity and optimization. I leveraged Google Analytics and developed logging systems to analyze customer behavior, contributing to product optimization. Collaborating closely with product managers, we iteratively refined our products. This multifaceted role enhanced my technical acumen and underscored my capacity for quick adaptation and continuous learning.

My portfolio of diverse projects like Apartment Management System and RoomNet, which showcase my versatility across various programming languages, frameworks, and cloud platforms. These projects underscore my commitment to continuous learning and my passion for tackling challenging problems.

My academic journey at New York University, pursuing a Master's in Technology Management, has fostered innovative thinking and deepened my understanding of technological advancements. This program has kept me abreast of the latest technologies while cultivating essential management skills, including effective time management. Navigating the intensive demands of my master's degree has significantly enhanced my ability to manage time efficiently. Following this, my foundational education in Business Administration from the University of California Riverside equipped me with solid skills in data management and data cleaning. Together, this diverse educational background uniquely positions me to integrate business strategies with cutting-edge technological solutions, addressing complex challenges through innovative software approaches.

I am particularly interested in roles that allow me to contribute to meaningful projects while continuing to grow as a software engineer. My goal is to join an organization where innovation, collaboration, and growth are valued, and where I can apply my skills to make a significant impact.

Thank you for considering my application. I am excited about the opportunity to start my career in software development and am eager to bring my enthusiasm, dedication, and innovative thinking to your team. I am available for relocation and look forward to potentially discussing how my background aligns with the needs of your dynamic team.

Sincerely,

JIAYING YU