

BRIAN HYOJUN YOON

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EDUCATION

University of Texas at Austin *Bachelor of Science in Computer [Software] Engineering* – Austin, TX

Relevant Coursework: Embedded Systems, Algorithms, Data Structures, Software Design I & II, Digital Systems Design, Digital Logic, Circuit Theory, Data Science

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer – *Radiosity Labs, Remote Contract*

September 2024 – Present

Javascript, React Native, Figma, Node.js, Apollo GraphQL, NoSQL, AWS, Android Studios, XCode

- Enhanced a social media app by allowing users to rate historical stories and create exclusive viewing permissions, ensuring seamless compatibility for both the App and Play Store
- Designed and implemented an age-based rating system that categorizes stories by user preferences and age, enabling personalized content visibility and fostering a safer, tailored user experience.
- Developed video and photo-sharing functionality within the social media app, enabling users to upload and share multimedia content within private or public circles, utilizing AWS S3 for secure storage and fast retrieval and React Native for a smooth media interface.
- Accelerated load times by 35% using memoization/lazy loading practices and optimizing state management for minimizing API calls, data latency, and re-renders.
- Revamped the GraphQL query to only retrieve critical data by restructuring data requirements tailored towards user interaction, achieving up to 50% reduction in payload size.

Full-Stack Software Engineer – *iBuy Phones, Remote Contract*

April 2024 – September 2024

Python, React Native, Javascript, Figma, Flask, MongoDB, SQL, PyTorch

- Enhanced the AI-powered stock market analysis tools automating trading strategies and providing predictive insights from 77% to 85% accuracy.
- Implemented a machine learning recommendation system that analyzes user behavior and market trends, increasing conversion rates by 15% through personalized product recommendations.
- Engineered a data visualization program that dynamically rendered graphical estimations, integrating real-time data processing from both front-end and back-end systems to deliver insights for users.

Software Engineer – *Harry Ransom Museum, Austin, TX*

August 2021 – July 2022

Java, JVM, JDBC, Linux, PostgreSQL, SQL

- Designed a high-performance Java-based storage solution for managing over 1,000 financial records in SQL databases, improving data processing efficiency by 30%.
- Enhanced query algorithms by optimizing data retrieval patterns, cutting down time complexity from $O(n^2)$ to $O(n)$, resulting in faster access to critical financial information.
- Developed an error-diagnosis tool in JavaVM that streamlined debugging processes, reducing bug resolution time by 40% and improving overall system reliability.

PERSONAL PROJECTS

Habit App – *Austin, TX*

August 2024

- Developed a full-stack habit tracker app using JavaScript, React Native, and MongoDB, featuring real-time data synchronization, progress visualization, and cross-platform functionality.

Weather App – *Austin, TX*

April 2022

- Built an Android weather application using Java and JavaScript, integrating real-time API data for accurate weather forecasting, with an adaptive user interface.