BRIAN YOON

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EDUCATION

University of Texas at Austin

Bachelor of Science, Computer [Software] Engineering

- **Coursework:** Embedded Systems, Algorithms, Data Structures, Software Design I & II, Digital Systems Design, Data Science

SKILLS

- **Technologies:** Figma, Python, Java, Node.js, React Native (Javascript), SvelteKit, CSS, HTML, Tailwind CSS, DaisyUI, Skeleton UI, XCode, Android Studios, Angular
- **Databases & Data Management:** NoSQL, MongoDB, PostgreSQL, SQL
- **Cloud, Infrastructure & Tools:** AWS S3, Azure Container Apps, Linux, JDBC
- **Additional Skills:** Analytical Skills, Figma, CI/CD Pipeline, Jenkins

PROFESSIONAL EXPERIENCE

Radiosity Labs Startup | Full-Stack Developer Contract **Sep 2023 - Dec 2024**

- Developed 100+ interactive mobile features from Figma designs, collaborating across front-end and back-end teams using **React Native (Javascript), CSS, and HTML** to improve load speed by 40%, and boost user retention by at least 80%.
- Implemented a dynamic age-based filtration and rating system using optimized **NoSQL MongoDB** queries using **Node.js**, enabling personalized content filtering based on user metadata/preferences among hundreds of user categories.
- Diagnosed and resolved 200+ platform-specific and asynchronous issues, enhancing state consistency and reducing crash frequency by 25% across **iOS (XCode) and Android (Studios)**.
- Engineered scalable media upload and private sharing functionality by leveraging **AWS S3** for data management and low-latency delivery of video and photo content within dynamic user groups.

iBuy Phones | Full-Stack Software Engineer Intern **May 2022 - Sep 2023**

- Enhanced mobile purchase conversions by 28% by engineering a responsive e-commerce interface with SvelteKit and Tailwind CSS, ensuring seamless integration between front-end interactions and a **Python (FastAPI) backend** for real-time product updates and checkout.
- Reduced development time by building scalable, WCAG-compliant UI components with DaisyUI and Skeleton UI, enabling the rapid delivery of new features based on user feedback within 24 hours.
- Developed and maintained scalable backend services using **Python (FastAPI) and Azure Container Apps**, enabling CI/CD pipelines with zero-downtime deployments and instant rollback support, which cut production incidents by 50%.

Harry Ransom Museum | Software Engineer **Aug 2021 - May 2022**

- Designed a high-performance Java storage solution using **JDBC**, and **PostgreSQL** to manage over 1,000+ financial records, improving data processing efficiency by 33% in a **Linux**-based environment.
- Enhanced data retrieval algorithms by optimizing SQL queries and reworking access logic in Java, reducing time complexity from $O(n^2)$ to $O(n)$ and accelerating access to financial data.
- Created a JVM-based error diagnosis tool for backend systems running on Linux, streamlining debugging workflows and reducing bug resolution time by 42%, increasing backend reliability.

PERSONAL PROJECTS

Habit App Aug 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 Apr 2022 Built an Android weather application using Java and JavaScript, integrating real-time API data for accurate weather forecasting, with an adaptive user interface.