Amritvir S. Randhawa

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EXPERIENCE

Lasaria   **Washington D.C., (Remote)**
Software Engineer (Full-Time)   *Jan 2024 – Present*

- **Developed** a full-stack music streaming platform using **React Native** and **AWS** (**Cognito, DynamoDB, S3**) by implementing secure **RESTful APIs**, optimizing user authentication and profile management for seamless **cross-platform** usage.
- **Implemented** advanced **UI** for **artist/listener** profiles by integrating **React Native** components with efficient **DynamoDB** queries, enabling **CRUD** operations with **90%** faster data retrieval and **35%** improved user interaction.
- **Created** comprehensive dashboard analytics by leveraging **DynamoDB GSIs** and **AWS Lambda** to efficiently track follower metrics, top tracks, and geographical popularity, providing artists with actionable insights.
- **Engineered** social engagement features, such as dynamic posts and real-time like/comment tracking, using **WebSocket-based real-time** data synchronization for an interactive user experience.
- **Developed** a secure authentication system using **OAuth** and **JWT tokens** by integrating **Cognito's** user pools and implementing role-based access control, improving system efficiency by 40%.
- **Designed** scalable **microservices** architecture with **Node.js** and **AWS Lambda** by modularizing services for authentication, data analytics, and media handling, resulting in a 30% increase in user engagement.
- **Utilized Figma** for **UI/UX** design and integrated **Expo** into the development **pipeline** to streamline **cross-platform mobile** development, ensuring consistent branding and usability across devices.

Lasaria   **Washington D.C., (Remote)**
Software Engineer (internship)   *Sep 2023 – Dec 2023*

- Collaborated on cross-platform **UI/UX design** using **Figma** and **Expo**, ensuring consistent branding across mobile devices.
- Integrated **Cognito** for role-based access control and improved profile **management workflows**.
- Developed **search and filter functionalities** for an intuitive product discovery experience.
- Contributed to **CRUD** operations for artist/listener profiles, reducing backend response time by 25%.

Wish to Wear *(W2W)*   **Instanbul (Remote)**
Software Engineer (internship)   *Jun 2023 – Aug 2023*

- Developed **responsive web and mobile UIs** for **(W2W)**, and eCommerce for **clothing rentals** using **React Native, React**.
- Integrated **dynamic pricing, rental scheduling, and inventory management** to enhance the user experience.
- Improved website **performance by 45%**, optimizing **API calls, lazy loading, and UI rendering**.
- Implemented **Stripe for secure payments** and **Firebase authentication**, improving checkout flow and security.

PROJECTS

Docomo - Full Stack Web App | *Next.js, React.js, Firebase, TailwindCSS, NextAuth*   **August 2023**

- Developed a **secure document management system** with **real-time file upload, sharing, and access control**.   *Link*
- Integrated **AI document detection (Tesseract.js)** sensitive data protection including **folder locking expiration notifications**.

Fridge - Food Expiry Tracker Web App | *Django, Python, SQLite*   **August 2022**

- Built a **food inventory tracking app** with **automated expiry alerts** and **expense tracking dashboards**.   *Link*
- Engineered **real-time notification systems** to help users manage food waste effectively.

Snapix - Social Media Photo-Sharing Android App | *Flutter, Dart, Firebase*   **July 2022**

- Developed a **photo-sharing social media app** with **real-time updates, likes, and comments**.   *Link*
- Optimized **Firebase storage and caching**, enhancing **image loading speeds and performance**.

SKILLS

- **Programming Languages:** JavaScript (ES6+), TypeScript, Python, Kotlin, Dart, SQL
- **Frontend:** React.js, React Native, Next.js, HTML5, CSS3, TailwindCSS, Redux, Bootstrap, Chakra UI, React Hook Form
- **Backend:** Node.js, Express.js, AWS (DynamoDB, Cognito, S3), Firebase, REST, MongoDB, SQL, MySQL, PostgreSQL, Django
- **Tools & Frameworks**: Redux, WebSockets (Socket.io), React Router, GraphQL, Apollo, JWT, Jest, Vite, Redis, Docker, JIRA
- **Others:** Git, GitHub, Linux, Jenkins, Expo, Framer Motion, Agile (Scrum), Team Collaboration, Problem-Solving

EDUCATION

California State University of Chico   **Chico, California**
*Bachelor's Degree in Computer Science - (1-time **Dean Honor Award** with a **3.7 GPA**)*   *Aug 2021 - Dec 2023*