Amritvir S. Randhawa

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EXPERIENCE

Lasaria   **Washington D.C., (Remote)**
Software Engineer   *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.

PROJECTS

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

- Architected a **secure document storage solution** using **React.js** &**Firebase**, adding advanced security for sensitive document
- Developed **intelligent document detection system** using **Tesseract.js** to automatically identify and protect sensitive documents like passports and green cards.
- Created **proactive expiry tracking mechanism**, multi-tiered notification system, alerting users before document expiration.
- Implemented **granular security controls**, including folder lock/unlock & optional password protection for critical documents.
- **Overcame key challenges** in **ML**-based document analysis and **encryption** tech, demonstrating **complex problem-solving.**

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

- Designed comprehensive **food management** with **Django** & **Python**, addressing food waste, inventory tracking challenges.
- Developed **intelligent expiry tracking feature** with color-coded status and automatic sorting of food based on freshness
- Implemented expense tracking, enabling users to track and analyze food waste expenditure through **dynamic charts**.
- Created a **real-time web notification system** to provide instant updates on food conditions and potential waste
- **Engineered complex algorithms** for data synchronization, expense calculation, and dynamic front-end rendering.

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

- Built **social media application** using **Flutter** and **Firebase**, focusing on efficient photo sharing and **user interaction**.
- **Comprehensive social features** including photo uploading, commenting, liking, popularity-based home feed algo.
- Optimized **mobile application performance** through strategic **Firebase storage** management, efficient data handling
- Developed **intuitive user interface** that enables seamless photo sharing and social interaction across mobile platforms
- **Demonstrated expertise** in **cross-platform** mobile development, **real-time DB** integration, mobile **UX/UI** design.

SKILLS

- **Programming Languages:** JavaScript | TypeScript | Python | Kotlin | Dart | C++ | C | SQL
- **Frontend Technology:** React.js | React Native | Next.js | HTML | CSS | TailwindCSS | Redux | jQuery
- **Backend & Cloud Development:** Node.js | Express.js | AWS | DynamoDB | Firebase | REST APIs | MongoDB | SQL
- **Others:** Git | GitHub | Linux | Jenkins | Jest | Expo | Team-Collaboration | Problem-Solving | Agile | SCRUM

EDUCATION

California State University of Chico   **Chico, California**
Bachelor's Degree in Computer Science   *Aug 2021 - Dec 2023*

- o 1-time **Dean Honor Award** with a **3.7 GPA**