Aarzoo Chennan

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A versatile software engineer that has a passion for developing apps to improve people's health.

Work Experience

Full Stack Software Engineer, Myant   Sept 2023 - Now

- Engineered GraphQL APIs and led full-stack web development for a high-traffic physician portal, utilizing React for the front end and advanced AWS services to create a scalable and high-performance solution
- Developed a patient-friendly React Native mobile app that interfaces with our ECG and heart rate-monitoring Bluetooth device, enhancing data collection features and scaling the user base from 50 to 7,000
- Transformed and productized complex data science algorithms, converting Python scripts to JavaScript and integrating them into AWS services for scalable, high-impact solutions
- Created comprehensive technical documentation for designs and processes, ensuring clarity and maintainability while achieving HIIPA compliance and supporting FDA approval efforts

Start-up Founder, Milk IT!   Jan 2021 – Aug 2023

- Founded a biomedical startup dedicated to creating a device for the safe treatment of HIV-infected breast milk, ensuring its safety for infant consumption
- Secured $20,000 in seed funding through strategic pitches and presentations, successfully gaining financial backing from investors and stakeholders
- Directed both technical and business aspects of the startup, from initial design and research to securing funding and forming strategic partnerships

Software Developer, Corvista Health   Jan 2022 – Aug 2022

- Engineered robust RestAPIs and designed responsive front-end components in React for a web app that displayed real-time tracking and 3D visualization of ECG data
- Developed and deployed an advanced in-house email notification system for the clinical team using AWS Lambdas, streamlining the tracking of user data and enhancing communication efficiency
- Leveraged Python libraries such as Sci-kit Learn, Matplotlib, and NumPy to preprocess and visualize phonocardiogram data, driving feature development and contributing to innovative new diagnostic methods for cardiovascular conditions
- Implemented features using Objective-C for an iOS application for patient data collection

Junior Machine Learning Engineer, Healthcare Systems R&A   May 2021 – Aug 2021

- Lead a team of four in the implementation of a ML model with 90% sensitivity to assist clinicians in the diagnosis of recurring chronic lower back pain
- Preprocessed clinical and open-source survey data using VBA and Python's Panda
- Designed and developed the authentication process for a hospital mobile communication app using Dart with the Flutter SDK and Firebase

Skills

Languages	Python, Javascript, Typescript, SQL, MATLAB, Objective-C, Dart
Technologies	React, React Native, Graphql, FastAPI, PostgreSQL, MySQL, Docker, Git, AWS

Education

University of Waterloo, B.ASc Biomedical Engineering (2023)