GOWTHAM KANNAN R

SOFTWARE ENGINEER

11/325,velavan colony 1st street,vengaivasal, Chennai, 600126, India | gowthamkannan207@gmail.com | 8939373123

PROFILE

I am a Full-Stack Developer and Data Engineer with expertise in React Native, Python (Flask/FastAPI), GraphQL, and AWS (Lambda, API Gateway, ECS, CloudFront). Skilled in building scalable mobile apps, serverless backends, and robust databases with PostgreSQL/MySQL. In healthcare, I engineered ETL pipelines to clean and load data from PM/EMR systems, enabling analytics and chronic care management. Passionate about solving real-world problems with mobile-first design, cloud solutions, and data pipelines.

PROFESSIONAL EXPERIENCE

Software Engineer, Clustrex Data Private Limited, Chennai   July 2023 — Present

With over two years of experience as a Full Stack Developer, I bring expertise in Python, React, React Native, and AWS. My skill set spans the development of both web and mobile applications, with a strong focus on scalability and efficiency. I have a proven track record of architecting robust solutions and leveraging AWS cloud services to optimize performance. Driven by a commitment to quality and innovation, I consistently deliver impactful products that align with organizational goals.

Software Engineer Intern, Clustrex Data Private Limited,   October 2022 — June 2023
Chennai

During my internship as a Software Engineer, I gained practical experience working with technologies such as Python, React, React Native, and AWS. I actively contributed to the development of both web and mobile applications, focusing on building scalable, efficient features and ensuring robust performance across platforms.

Python and Java Trainer(Part Time), Besant technologies,   January 2021 — July 2022
Chennai

Served as a Python and Java Trainer, delivering interactive and hands-on sessions to help students build strong programming fundamentals. Focused on real-time examples, live coding, and project-based learning to enhance engagement and understanding. Ensured a practical, student-centered approach to learning core and advanced concepts in both languages.

EDUCATION

Bachelor of Engineering   August 2019 — July 2023

Agni College of Technology, Chennai
Graduated with **8.01 CGPA**, demonstrating strong academic performance in computer science fundamentals, software development, and engineering principles.

Secondary School Leaving Certificate   June 2017 — June 2019

vidhya matric higher secondary school, Chennai
Successfully completed with a solid academic foundation, emphasizing mathematics, science, and logical reasoning.

TECHNICAL SKILLS

Python	Typescript	React	React Native
PostgresSQL	AWS	Graphql	RestApi
Flutter	GO		

PROJECT EXPERIENCE

School Management App

Developed a School Management App that enabled teachers to conduct exams, track performance, and publish student marks. Built the frontend with **HTML, Tailwind CSS, and JavaScript**, and the backend with **Python**, integrating **PostgreSQL (RDS)** and Google Sheets for data storage. Leveraged **AWS API Gateway and Lambda** for backend services and **CloudFront** for frontend hosting to ensure scalability and reliability.

Mobile app

Worked as a Mobile App Developer on a social media networking app, building features with **React and React Native**, using **GraphQL** for efficient data delivery, and integrating **AWS Cognito** for secure user management.

Health Care Application

Worked as a Full-Stack Developer on healthcare applications, including a **patient tracking app** with features such as login, appointment booking, rescheduling, cancellations, chat with medical staff, and medication tracking. Built the backend with **Python Flask APIs and AWS (Lambda, API Gateway, ECS)**, and the frontend with **HTML, Tailwind CSS, JavaScript, React (admin dashboard), and React Native (mobile app)**. Designed appointment booking and clinical trial applications, ensuring secure, scalable, and user-friendly solutions.

Chronic Care Management

Worked as a Full-Stack Developer in chronic care management, developing and maintaining **8 production-grade mobile applications** with smooth **CI/CD pipelines**. Built and optimized backends with **Flask**, reducing redundant API calls to improve performance and user experience. Managed end-to-end responsibility for all applications, using **Nx and React Native** for mobile apps, **Vue.js** for dashboards, and **Flask** for backend services.

Medical Inventory Management App

Worked as a Full-Stack Developer and Data Engineer on a Medical Inventory Management App, building the backend in **Go (GORM ORM, PostgreSQL)** and implementing ETL pipelines with **Python**. Deployed services on **AWS ECS and Lambda**, using **EventBridge** for scheduled CRON operations. Designed and optimized data pipelines to pull, clean, and load data from **EMR and PM sources**, leveraging **DuckDB** for efficient large-scale data handling. Took ownership of the **entire ETL process**, ensuring reliable and scalable data workflows.

COURSES

Ethical hacking Training Certificate, Besant Technologies	**January 2020 — March 2025**

ADDITIONAL INFORMATION

- **Languages:** Tamil, English