

SACHINTHA DISSANAYAKA

Software Engineer

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PROFILE

Computer Engineering graduate with full-stack development experience in mobile and web applications. Skilled in cloud platforms, distributed systems, and machine learning. Passionate about applying technology to solve real-world problems and seeking to leverage technical expertise in a software engineering role.

EDUCATION

B.Sc. (Hons) in Computer Engineering Apr 2021 - Nov 2025
University of Jaffna, Sri Lanka
GPA: 3.5/4.0

PROFESSIONAL EXPERIENCE

Software Engineer Intern Feb 2025 – Aug 2025
WSO2 Colombo, Sri Lanka

PROJECTS

Worky - Trainee Management System WSO2
Feb 2025 – Aug 2025

- Developed end-to-end Trainee Management System for SJDSF to monitor intellectually disabled trainees
- Built React Native mobile app with OTP authentication (Google Play Store) and React.js admin dashboard on WSO2 Choreo
- Implemented Golang backend with PostgreSQL and integrated Microsoft Azure authentication for admin access
- Led client meetings for requirements gathering and demos; designed accessible UI/UX using Figma
- Tech Stack: React Native, React.js, Golang, PostgreSQL, WSO2 Choreo, Microsoft Azure, Figma

Exam Registration Portal University of Jaffna
Apr 2024 – Nov 2024

- Developed a full-stack exam registration system with real-time advisor-student management
- Implemented RESTful APIs for secure data operations
- Tech Stack: .NET, Blazor Server, MySQL, RESTful APIs

Mate Chatbot for Slack Integration

Jun 2024 – Jul 2024

- Built an AI-powered Slack chatbot using RAG architecture
- Integrated LangChain, OpenAI API, and Chroma vector DB for efficient document retrieval
- Tech Stack: Python, LangChain, OpenAI API, Chroma DB

Big Data Analytics and Deployment using Distributed Computing University of Jaffna
Feb 2024 – Nov 2025

- Conducted large-scale ECG data analysis using distributed and parallel computing techniques
- Developed scalable data preprocessing with heartbeat segmentation and feature extraction using Apache Spark
- Deployed the system on Google Cloud Dataproc to evaluate distributed performance for healthcare analytics
- Tech Stack: Apache Spark, PySpark MLlib, Hadoop, Google Cloud Storage, NumPy

Airbnb Clone Web Application

Nov 2024 – Feb 2025

- Developed a full-stack MERN application with JWT authentication, property listing management, and real-time booking
- Tech Stack: MongoDB, Express.js, React.js, Node.js

VOLUNTEERING

President

Oct 2024 – Present

Computer Engineering Society, University of Jaffna

- Organizing an industry-academia collaboration event, securing partnerships with leading tech companies
- Launched a monthly technical talk series

National Project Coordinator

Sep 2019 – Dec 2020

Learn Steer, Sasnaka Sansada Foundation

- Built educational platform from the ground up, growing to 10,000+ monthly active users in 12 months
- Recruited and managed a team of 250+ university student volunteers
- Created thousands of educational resources, achieving 95% positive user feedback

National Project Coordinator

Jan 2023 – Dec 2024

Nipayumani, Sasnaka Sansada Foundation

- Delivered 20+ hybrid educational sessions to 3,000+ students
- Created a mentoring framework connecting student inventors with experts

Assistant Secretary

Feb 2023 – Jan 2024

IEEE Student Branch, University of Jaffna

- Coordinated cross-faculty technical events and increased member engagement by 45%

TECHNICAL SKILLS

Languages: Golang, Java, Python, C++, JavaScript, SQL, C, C#

Frameworks & Libraries: Gin, Gorilla, GORM, React.js, Next.js, React Native, Expo, .NET, Blazor, FastAPI, Express.js, Spark MLlib

Tools: Git, Docker, Postman, Figma, Jira

Databases: PostgreSQL, MongoDB, MySQL

Other: RESTful APIs, Microsoft Azure, WSO2 Choreo, CI/CD, Microservices Architecture, OAuth 2.0, JWT

ACHIEVEMENTS

IEEE Xtreme 18.0 — Global Rank 424

UoJ Coders 3.0 — Local Rank 02

ACES Coders 11.0 — Local Rank 24

BITCODE 5.0 — Finalist

AlgoXplore 1.0 — Finalist

CERTIFICATIONS

Introduction to Cloud Computing (edX)

Learn Cloud Computing with AWS

Advanced Learning Algorithms

REFEREES

Dr. (Mrs.) Jananie Jarachthan

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Faculty of Engineering, UoJ

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