

GOKUL SAJEEVAN

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Profile

MSc Computer Science student at UCD, passionate about technology and software development. Proficient in programming languages such as Java and Python, with hands-on experience in cloud technologies (AWS, Kubernetes, Docker) and distributed systems. Skilled in Agile methodologies and middleware technologies like RabbitMQ. A strong problem-solver with a deep interest in AI/ML applications and scalable solutions. Proven ability to analyse complex information and adapt in a dynamic technology environment

Education

University College Dublin

Sept 2024 – Present

MSc in Computer Science (NL)

- Coursework: Distributed Systems, Cloud Computing, Java, Big Data, Machine Learning with Python.
- Current Semester: Advanced Data Structures in Java, Generative AI, Advanced SQL, Advanced Machine Learning.

Sri Ramakrishna Institute of Technology

Aug 2020 – Aug 2024

B.E in Computer Science and Engineering | CGPA: 7.69

- Developed an AI-powered system to schedule and send personalized surveys, leveraging GPT for engagement and machine learning for insights.

Skills

- Programming Languages: Python, Java, JavaScript
- Databases: MySQL, AWS Redshift, MongoDB
- Cloud and DevOps: AWS S3, Docker
- Machine Learning & Data Science: Supervised & Unsupervised Learning, Data Cleaning, Solving Input Bias, Feature Engineering, Model Evaluation
- Others: Git, Dash, RabbitMQ, Linux, Bash

Projects

Agri-bridge | React, Tailwind CSS, Spring Boot, JWT, MySQL

- Developed a full-stack eCommerce application bridging farmers and sellers for agricultural waste products.
- Designed responsive UI components using React and Tailwind CSS for enhanced user experience.
- Implemented backend features including authentication with JWT, product management, and robust API endpoints.

Automated Survey Scheduler | Python, Stream lit, Gmail API, OpenAI, SQLite

- Developed a system to automatically schedule and send surveys based on user availability and preferences.
- Incorporated machine learning algorithms and GPT for personalized and engaging survey messages.
- Enhanced engagement rates and provided comprehensive survey result insights.

Finance Assistant | OpenAI API, Polygon.io, Python

- Built an intelligent financial assistant integrating OpenAI's GPT with Polygon.io to provide real-time financial insights.
- Implemented generalized functions for handling diverse finance-related queries and visualizations.
- Integrated advanced features like PDF-based ticker extraction, financial metric calculations, and data-driven investment recommendations.

Work experience

Solar Secure Solution

Aug 2022 – Oct 2022

- Developed responsive and dynamic user interfaces using HTML5, CSS3, and modern JavaScript, enhancing user experience and interactivity. Leveraged React component-based architecture to streamline development, reduce code complexity, and improve application performance.
- Optimized frontend efficiency by implementing reusable UI components, improving maintainability and scalability.

Achievements and Leadership Qualities

ISTEINDIA, Galgotias University

Noida

Awarded "The Best Acceleration and Innovation" at the 6th India Karting Event for developing a real-time go-kart distance display system, enhancing race performance tracking and driver analytics. Engineered the system using Python, Arduino, and ultrasonic sensors to detect karts ahead, enabling adaptive speed adjustments for improved safety and efficiency.

Volunteered in organizing District level hackathon

Coimbatore

Spearheaded the organization of a district-level hackathon at Sri Ramakrishna Institute of Technology for 750+ participants, overseeing end-to-end logistics, budgeting, and team coordination. Ensured seamless execution by managing participant engagement, certification distribution, and financial operations, delivering a high-impact tech event.