

P S K Karthikeyan Reddy

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EXPERIENCE

Software Engineer Intern

May 2025 – Jul 2025

Digital i360

Hyderabad, Telangana

- **Architected** an end-to-end lead processing system using Node.js and PostgreSQL, automating the ingestion and distribution of 5,000+ monthly leads with a 99.9% data integrity rate.
- Enhanced a **real-time notification engine** utilizing Redis and AWS Lambda that triggered automated follow-ups and reminders, reducing lead response time by 40% and boosting customer engagement metrics.
- Optimized backend workflow reliability by implementing unit testing and CI/CD pipelines (GitHub Actions), identifying and resolving 20+ critical bottlenecks to **improve overall system latency by 15%**.

PROJECTS

Travia | [GitHub-link](#) | *React, FastAPI, PostgreSQL, ETL/ELT, Firebase, Js, Python, SQL, NLP*

Feb 2025 – Mar 2025

- Developed and deployed a distributed system for artificial intelligence-powered web application that helps users **generate personalized trip itineraries** based on user preferences.
- Built a user-friendly chatbot (Travia) using natural language processing and Google Gemini AI for real-time travel assistance.
- **Implemented information retrieval techniques using a LangChain + RAG pipeline** on scraped Reddit travel data to improve empathy and contextual understanding and relevance of chatbot responses.
- developed and deployed a RESTful FastAPI backend with PostgreSQL to store user trips, chat history, and session data.

SemGuide | [GitHub-link](#) | *Python, Django, React, PostgreSQL, REST API, ETL/ELT, AWS EC2*

Dec 2024 – Jan 2025

- Designed a **web application to streamline resource access for students, improving usability and efficiency**.
- Implemented secure authentication and role-based access control using Django to ensure data privacy.
- Deployed the application on AWS EC2 and **built backend functionality with Django and PostgreSQL**.
- Integrated REST APIs with a React frontend to create a dynamic and interactive user experience.

WaveChat | [GitHub-link](#) | *JavaScript, Socket.io, React Js, Node Js, Express Js, SQL, CSS, TCP/IP*

Dec 2024 – Jan 2025

- Engineered a real-time chat website featuring instant messaging between 1000+ community members, achieving average response times under 200 milliseconds. Added features for sending emojis and file sharing
- Enhanced login/signup security via Google Cloud OAuth and **integrating Socket.io for real-time chat functionality**

TECHNICAL SKILLS

Languages: Java, C++, JavaScript, TypeScript, SQL, C

Web & Backend Development: React, Node.js, REST APIs, WebSockets, Express.js

Databases & Data Tools: PostgreSQL, MySQL, MongoDB, Firebase

Cloud & Developer Tools: GCP, Git, GitHub, Docker, Linux

Key Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems

Areas of Interest: Full-Stack Development, Cloud Application Engineering, System Design & Architecture

EDUCATION

Lovely Professional University

Bachelor of Technology in Computer Science

Phagwara, Punjab

Aug 2022 – Jun 2026

ACHIEVEMENTS

- **Google Developer Groups Challenge (GDG):** Secured Global Rank **304** among **10,000+** participants.
- Achieved **Rank 3** in the **Google Open Code 24** challenge at the institute level.
- **Google Cloud Certified** – Associate Cloud Engineer (*2025*).
- Achieved a **Top 1% rank** among **60,000+** applicants to earn selection into the **Amazon ML School 2025**, demonstrating strong problem-solving and data structures expertise.

CODING-PROFILES

- **LeetCode** - **sunny71** (Max Rating: 1887)
- **GeeksforGeeks** - **sunny71**

POSITION OF RESPONSIBILITY

GDSC Coordinator

Lovely Professional University

Phagwara, Punjab

- Guided 10+ project teams on system design, SQL, and REST API integration, leading to the deployment of 2 full-stack applications for the **Google Solution Challenge**.
- Scaled the tech community from **50 to 500+ members** by delivering 5+ hands-on workshops on **Google Cloud** and Full-Stack Development, training over 300 students.