

Rupesh Mangalam | Curriculum Vitae

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Career Objective

Aspiring Fullstack Developer with a strong foundation in JavaScript, React, Node.js, and a growing proficiency in backend technologies like Docker, Redis, and SQLAlchemy. Skilled in building user-centric, scalable applications and eager to deepen expertise in containerized environments and database management. Seeking opportunities in dynamic startups or product-focused companies where I can apply and further develop my skills across the stack.

Academics

Chandigarh University, Punjab

Bachelor of Engineering (BE), Computer Science and Engineering
Graduating July 2025 | 2021 – Present

Sanskar International School, Prayagraj

Class 12th, Percentage: 76.4% | 2021

Sanskar International School, Prayagraj

Class 10th, Percentage: 83.2% | 2019

Projects

- + **Ava-H: Advanced Virtual Administration for Healthcare**
Developed a scalable E-Healthcare system using React.js and Firebase. Integrated Google Maps API for location-based services and News API for real-time health updates, enabling direct doctor-patient interaction.
- + **Sentiment Analysis Model**
Built a machine learning model to analyze and classify sentiments in textual data. Used natural language processing techniques to preprocess data and trained the model on labeled datasets, achieving reliable sentiment classification. The project provided insights into customer feedback and social media content for improved decision-making.
- + **Code Compiler System**
Developed a backend compiler system using flask inspired by LeetCode, supporting multiple programming languages and using Docker containers for secure code execution. Integrated PostgreSQL for user data management and Redis for job queueing, optimizing code processing. Enhanced error handling and scalability by implementing a modular architecture with Docker Compose, enabling seamless deployment and maintenance.

Skills

- + **Programming Languages:** Java, JavaScript, TypeScript, Python.
- + **Web Technologies:** HTML, CSS, React, Next.js, Firebase, Node.js
- + **Tools & Platforms:** Git, Docker, Docker Compose, Vercel, Figma, Google Maps API
- + **Frameworks & Databases:** Redis, Flask, SQLAlchemy, PostgreSQL, MongoDB
- + **Industry Knowledge:**
 - Web Application Development: Experience with both frontend and backend components, including API integration, containerization with Docker, and database management.
 - Backend Development: Proficient in setting up server-side logic using Flask, implementing databases with SQLAlchemy, and managing job queues with Redis.
 - Frontend Development: Strong foundation in modern web frameworks like React and Next.js, along with skills in wireframing and UI design tools like Figma.

Certifications & Open Source Contributions

- + **OpenClimateFix/ocf-data-sampler**
Contributed to this open source repository with multiple PR's, January 2025
- + **IBM Full Stack Software Developer Professional Certificate**
IBM on Coursera, July 2023

Achievements

- + **Tekathon 2.0**
Led a team of 6 members to victory, qualifying for Smart India Hackathon 2023 Regionals. Ranked top 30 out of 700+ teams, September 2023.
- + **Pharma-thon 1.0**
Led a team of 2 members to secure first runner-up position out of 30+ teams, November 2023.
- + **Tomato Grand Challenge Hackathon**
Led a team to secure first runner-up position out of 30+ teams, November 2023.