

M Mohammed Zaid

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EDUCATION

Bachelor of Engineering(B.E) Computer Science,
Chennai Institute Of Technology CGPA: 8.5

2021 – present | Chennai

INTERNSHIPS

Full-Stack Developer - Intern, RPZ Enterprises

Jul 2023 – Dec 2023 | Chennai

- Led the creation of scalable REST APIs using MVC architecture, PostgreSQL, and ExpressJS
- Streamlined web application deployment on Vercel and OnRender platforms, integrating with remote PostgreSQL databases for improved accessibility.
- Collaborated across teams to achieve project milestones and resolve technical challenges, fostering a dynamic and agile environment.

Full Stack Developer - Intern, Veeral Enterprises

Jun 2023 – Aug 2023 | Chennai

- Worked on Static Site Rendering using HTML, CSS, and Bootstrap, resulting in optimized website performance and a notable 30% reduction in loading time, significantly improving user experience and navigation efficiency.
- Implemented a seamless user experience by leveraging Django's MVT framework, integrating forms and an admin panel into modular templates for dynamic web functionality.

ACHIEVEMENTS

Smart India Hackathon 2023 - Winner, SIH 1411 - Ministry of Home Affairs

Dec 2023

- Developed an VR simulation system using Unreal Engine 5 and Blender, addressing counter hijacking systems and air marshal operations, endorsed by the Ministry of Home Affairs.
- Worked mainly with blender creating 3D models for VR environment.

Analysis of Time and Space Complexity of Array, Linked List and Linked Array(hybrid) in Linear Search Operation - Research Paper

- Conducted a comprehensive analysis comparing time and space complexities of linear search operations across array, linked list, and the pioneering Linked Array structure, showcasing its nature and performance.
- Demonstrated empirically how the innovative Linked Array structure offers improved efficiency and versatility.
- <https://ieeexplore.ieee.org/document/10028872>

PROJECTS

Auth-Template, NextJS, Prisma, Auth-js, Clerk, ShadcnUI Mar 2024

- Developing a modular authentication micro-service using Next.js, Clerk, and Prisma, with remote PostgreSQL.
- Implemented user signup/login and administrative features, with future plans for email confirmation, password reset, and two-factor authentication, focus is on scalability and production.
- Aiming to support up to 1000 users concurrently with performance and reliability.
- <https://github.com/profzaid007/auth-template>

ParseCV, NLP, Streamlit, Numpy, Pandas Feb 2024

- Developed an NLP-powered tool using Streamlit, Numpy, and Pandas to efficiently extract and organize data from resumes into a structured CSV.
- Implemented visualizations such as Word Cloud to streamline resume analysis, enhancing the candidate selection process.
- <https://github.com/profzaid007/resumdataparser>

Mahiot - Academic, Pytorch, TensorFlow, Pillow, Python

- Developed and implemented Latent Diffusion Models (LDMs) using PyTorch and TensorFlow to facilitate high-quality image synthesis, in academic research settings, ensuring superior results.
- Handled the integration of LDMs and Stable Diffusion v1.5 into the image synthesis pipeline, contributing to advancements in the field of computer vision and machine learning.

Unisys - Drugs awareness platform + ChatBOT, NextJS, Unreal Engine 5, Flask, BlenderBot Feb 2024

- Developed a drugs awareness platform with an integrated ChatBOT using Next.js, Flask, and BlenderBot, enhancing user engagement and education on drug-related topics.
- Optimized digital platformer creation in Unreal Engine 5, achieving 80% reduced memory allocation through efficient input mapping, while maintaining a high level of realism by simulating real-world physics with 60% fidelity.

SKILLS

Languages | JAVA, Python, C, Javascript, Typescript, Go
Full Stack | NodeJS, ExpressJS, Prisma, MySQL, NextJS
PocketBase, PostgreSQL, Supabase, ReactJS, PicoCSS,
DaisyUI, ShadcnUI, Aceternity, TailwindCSS
AI/ML | Ollama, Stable Diffusion, Streamlit
Miscellaneous | Linux, Blender, Unreal Engine 5,
MongoDB, Bootstrap, Sanity CMS

CERTIFICATIONS

- Developing Back-End Apps with Node.js and Express (IBM)
- Introduction to Web Development with HTML, CSS, JavaScript (IBM)
- Introduction to Cloud Computing (IBM)
- Developing Front-End Apps with React (IBM)