Amit Mehta

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Education

Indian Institute of Information Technology(IIIT) Una **Dec 2020 - May 2024**
Bachelor of Technology(B.Tech) in Computer Science Engineering.

Experience

IKSMHA Centre, IIT Mandi - Research Intern **Feb 2025 - June 2025**

- Implemented **NamedPipes** to reduce the time for sharing images between Python & C# processes by **90%**.
- Implemented **Shared Memory** Persisted & Non-Persisted Memory Mapped Files & MMaps for efficient data handling.
- Created data clusters using **clustering** algorithms in order to lower latency & improve prediction accuracy.
- Extracted image **CNN** features from the last convolutional layer of EfficientNetV2S pretrained model.
- **Tech Stack:** Python, C#, NumPy, Pandas

Techrupt Innovations Pvt. Ltd. - Full Stack Developer Intern **Aug 2024 - Nov 2024**

- Built & maintained web applications using the **MERN** stack to deliver scalable & efficient solutions for startups.
- Developed & maintained front-end features using **ReactJS**, ensuring responsive design & optimal performance.
- Collaborated with the **UI/UX** team to translate design mockups into functional user interfaces.
- Created **RESTful APIs** to facilitate seamless communication between the front-end & back-end, improving data exchange & application performance.
- Implemented unit tests to maintain code quality & ensure reliability of the applications.
- **Tech Stack :** HTML, CSS, ReactJs, JavaScript, NodeJs, ExpressJs, MongoDB

Projects

ShopSense - E-Commerce Platform **June 2023**
* Developed a feature-rich e-commerce platform leveraging the **MERN** stack, with a focus on **SEO** optimization, extensive product **filtering** capabilities, & seamless **payment** integration.
* Engineered a robust frontend using React, integrating advanced features such as **Context API** for state management, dynamic **dashboards** for both users & administrators, & intuitive navigation including a comprehensive **cart** page.
* Implemented sophisticated backend functionalities including **user authentication**, product management, & order processing, ensuring seamless user experiences.
* **Tech Stack :** ReactJs, Nodejs, Express, MongoDB

CreatiVortex - ChatGPT Clone **Jan 2023**
* Created a secure **authentication** flow, enabling users to register, log in, & access personalized content using **JWT**.
* Implemented features such as text summarization, paragraph generation, JavaScript code generation, sci-fi image generation, Chatbot using Material UI & **OpenAI APIs**.
* **Tech Stack :** ReactJs, Nodejs, Express, Material UI, MongoDB

EnvSafari **Nov 2022**
* Created a **Weather API** integration project that obtains current weather information for user's current location.
* Implemented **Search function** that enables users to retrieve weather data for a specific city by typing in the city name.
* **Tech Stack :** ReactJs, HTML, CSS

Technical Skills

Languages: C, C++, JavaScript, TypeScript, HTML, CSS, Python, SQL
Libraries & Frameworks: ReactJS, NodeJS, ExpressJS, Mongoose, Bootstrap
CS Core: Database Management, Data Structures & Algorithms, Object Oriented Programming, Operating System
Tools & Tech: Git, GitHub, MongoDB, MySQL, Visual Studios, LINUX, Colab, Jupyter Notebook

Achievements

Secured Rank - **4** among **700+** registered geeks on college portal of **GeeksForGeeks**.

Earned **Data Structures & Algorithms** Certification from **Apna College** | ✹ Certificate

Earned **Full Stack Web Development (MERN)** Certification from **Apna College** | ✹ Certificate

Solved **700+** problems **Leetcode** & **GeeksforGeeks** combined.

Current **streak** in the **LeetCode Problem of the Day** Series is more than **150** days.

Extra Curricular

Head of the Discipline Committee at IIIT Una **Yalgaar**(Sports Meet) 2023.
Event Coordinator at IIIT Una's **Meraki** annual techfest (Aug 2022 - Sep 2022).