Mahek Sota

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Education

- **University of Southern California** — Los Angeles, CA
  Master of Science in Computer Science — Aug 2022 - May 2024
  - Analysis of Algorithms, Database Systems, Foundation of AI, Web Technology, Natural Language Processing, Predictive Analysis, Information Retrieval
- **Thadomal Shahani Engineering College (Affiliated with Mumbai University)** — Mumbai, India
  Bachelor of Technology in Computer Science — Aug 2018 - Jun 2022
  - Human-Computer Interaction, Computer Networks, Operating Systems, Cloud Computing, Distributed Systems

Technical Skills

Programming Languages: C++, C#, Python, Java, Modern JavaScript (ES6+), SQL, PHP, TypeScript, Golang, Kotlin, Scala, Rust, Shell

Front-end: React fundamentals (including Redux and Hooks), AngularJS, HTML5, HTML/DOM, CSS/SASS, Highcharts, Vue.js, Next.js, Tailwind CSS, React Native, jQuery, Three.js, Vite, AJAX

Back-end & Databases : NodeJS, ExpressJS, SOAP, REST Principles, Flask, Django, Spring, Spring Boot, MySQL Relational Databases, MongoDB, PostgreSQL, Database Design & Performance Analysis, designing APIs, HDFS, Hive, HBase, Spring Hadoop, Spark, GraphQL, Web Services, Yarn, HTTP, JSON, REST, XML

Others: Amazon Web Services (AWS), Google Cloud (GCP), Git, Machine Learning, JSON, Agile Methodologies, Kubernetes, Azure, SCRUM, CI/CD, JIRA, UI/UX Design Principles, Figma, Docker, NGINX, Linux (Ubuntu), Debugging, Flutter, SSL, maven, Tableau, UNIX, Firebase, Agile framework development, data science, machine learning, Systems Engineering, Integration and ETL technologies, SOAP and REST APIs, Software Quality/Testing

Experience

- **Application Analyst**, University of Mississippi — Jun 2024 - Present
  - Designed and implemented complex features for end-to-end dashboards using ReactJS and Flask, optimizing performance and ensuring cross-browser compatibility.
  - Led efforts to streamline processes, cutting task completion time by 95.8%, and supported solutions by debugging.
  - Created and maintained comprehensive documentation for technical processes, enhancing clarity for stakeholders.
  - Troubleshot issues and provided timely solutions, enhancing user experience and functionality.
- **Machine Learning Intern**, Friends for Inclusion — Dec 2021 - Jan 2022
  - Designed and developed an innovative audiobook tool to improve accessibility for visually impaired users.
  - Implemented a **Long Short-Term Memory (using PyTorch) neural network** to build a state-of-the-art language translation model. Achieved an impressive **80% accuracy improvement in language translation**.
- **Front End Development Intern**, Ashtech — Jun 2021 - Aug 2021
  - Enhanced web applications (eCommerce and company website) with consistent UI/UX, improving customer satisfaction and accessibility.
  - Implemented and tested features such as payment portals and language translation using HTML, CSS, JavaScript, and REST APIs.
  - Participated in Agile development processes and collaborated closely with clients to gather and implement requirements.

Projects

- **Event Finder: React Web Application and Android Application**
  - Developed and launched "Event Finder," **a React application with Node.js backend**, leveraging **Ticketmaster API**, **IPinfo API**, and **Spotify API**. Worked with an **autocomplete feature** for users to search events. **Stored user's favourite events** using **localstorage** and display when needed. Extended the project to an Android application using Android Studio. **Tech Stack: HTML, CSS, JS, React, NodeJS, RESTFul API, localStorage, GIT, GCP, Bootstrap, Android Studio, Java.**
- **Work It: Fitness Web Application**
  - Superheaded the development of a **multi-functional website** featuring a **Chatbot, Video Call Integration, Recipe Recommender System (scraped 4000 recipes)**. Achieved **90%** accuracy for the Chatbot and **98%** for the Recipe Recommender System. Tech Stack Used: HTML, CSS, JS, React, Flask, ChatterBot, BeautifulSoup, NLP techniques - cosine similarity, Word2Vec.
- **RNN and LSTM Model for Sentimental Analysis**
  - Developed an **NLP project** focused on sentiment analysis of Amazon reviews using **RNN and LSTM models**, achieving an **80% accuracy rate**. Implemented various word embedding techniques for preprocessing, with Word2Vec delivering the highest accuracy results.