

PUNEETH REDDY MOTUKURU DAMODAR

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EDUCATION

Masters in Computer Science, Florida state University(FSU) CGPA: 3.6/4 Jan 2023- Dec 2024(Expected)
MTech(Integrated)-Software Engineering, Vellore Institute of Technology(VIT) CGPA: 8.97/10 June 2021

TECHNICAL SKILLS

Languages Python, JavaScript, TypeScript, HTML, CSS, PostgreSQL, MySQL, MongoDB, SQLite
Frameworks React, Redux, NodeJS, Express, NextJS, TypeORM
Libraries/Tools Storybook, Styled Components, Jest, React Testing Library, Cypress, K6
Tools Git, Docker
Proficiencies System Design, Algorithms, Data Structures, Computer Networks, Operating Systems

PROFESSIONAL HISTORY

Full Stack Developer [Novartis] Aug 2021 - Dec 2022

- I led the adoption of cost-saving tools, resulting in a significant **20%** reduction in company expenditures across various departments.
- Integrated **web design** and **backend development** to create visually appealing interfaces, boosting system performance and enhancing user experience with expertise in **ReactJS**, **NextJS**, **Flask**, **NodeJS**, and **FastAPI**.
- My role involved architecting and implementing **microservices**, utilizing worker threads and **RabbitMQ** to enable parallel data processing and efficient query execution, and creating logs using **Prometheus**.
- I ensured software reliability by authoring a comprehensive suite of tests, including unit, end-to-end, and stress tests. This involved the use of **Cypress**, **React Testing Library**, **Supertest**, **K6**, and **Jest**.

Data Engineer - Internship [Novartis] Aug 2020 - July 2021

- During my internship, I developed a versatile **ReactJS** table component seamlessly integrated with **Ant Design**. This enhanced data presentation and user interaction.
- I designed and implemented APIs using **NodeJS** and **ExpressJS**, emphasizing robustness and efficiency. These APIs were meticulously documented using **Swagger** and **Docusaurus**.
- Successfully migrating and refactoring **Python**-based APIs to NodeJS, I significantly improved their performance and maintainability.
- My contributions included developing insightful and interactive data visualizations using tools like **D3**, ReactJS, and **Styled components**, transforming raw data into visually compelling representations.

RESEARCH EXPERIENCE

Research Assistant - Automated Software Development [Florida State University] Aug 2023 - Present

- Building user-friendly web applications using **ReactJS** and **FastAPI**, contributing to a seamless and intuitive user experience.
- I have effectively **Dockerized** web components, enhancing their scalability and streamlining deployment processes.
- I've contributed to the design and development processes using **Figma**, ensuring visually cohesive and user-centric interfaces.

PROJECTS

EXPENSE ANALYSER

[GitHub](#)

TECHNOLOGIES - Typescript, React, Redux, NodeJS, ExpressJS, SQLite, PostgreSQL, TypeORM

- Enhanced expense management through the implementation of category-based expense calculation and visualization features.
- Enabled visualization of credit and debit transactions categorized by expenses.
- Facilitated data export to CSV and PDF formats for improved data accessibility.

PUBLICATIONS

[Random Alpha HybridEncryption and DecryptionAlgorithm](#)

Publisher: IEEE

EXTRA-CURRICULAR ACTIVITIES

- Actively engaged in the National Service Scheme (NSS) program at VIT, participating in community service and outreach.
- Qualified for the Silver Echelon in hackathons at VIT, showcasing problem-solving and coding skills in a competitive environment.