

Satish Babu Malempati

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PROFESSIONAL SUMMARY

*Experienced Software Engineer with over 3 years of experience in developing **robust and scalable Web applications** using **ReactJS, JavaScript and Python**. Adept at collaborating with **cross-functional teams** to design and implement **RESTful APIs** using **Express.js** and **Node.js**, managing **Complex Databases** and building intuitive **User Interfaces**. Proficient in **Full-Stack Development**, leveraging modern frameworks and tools to create seamless and responsive user experiences. Strong advocate for best practices in **Software Development**, including **Agile Methodologies, continuous Integration and automated Testing**.*

EDUCATION

California State University Long Beach, Long Beach, CA

Master of Science - Computer Science

Relevant Coursework: Analysis of Algorithms, Software Engineering, Computer Architecture, Artificial Intelligence, Object Oriented Analysis and Design, Pattern Recognition, Blockchain Technology, Natural Language Processing, Distributed Computing.

Aug 2022 – May 2024

GPA: 3.50

Anna University, Chennai, India

Bachelor of Engineering - Computer Science

Aug 2018 - May 2022

GPA: 8.99

TECHNICAL SKILLS

Programming Languages	Python, Java, C, JavaScript, TypeScript.
Python	NumPy, Scikit-Learn, Matplotlib, Pandas.
Web Technologies	HTML, CSS, React JS, Express, Node, jQuery, Redux, Recoil, AJAX, JSON, REST API, UI/UX.
Databases	MySQL, Mongo DB, MS SQL Server, SQLite3.
Web Services	Git, Bitbucket, Postman, RESTful API.
Software Engineering	SDLC, DSA, Agile, Jira, Jenkins, Scrum, Docker, CI/CD, Unit Testing.
Cloud Technologies	Azure, AWS and GCP.
Tools and OS	Virtual Studio Code, Eclipse, Jupiter Notebook, Windows OS, Linux/UNIX OS.

EXPERIENCE

Front End Developer | Forty Niner | CSULB | Long Beach, CA

Feb 2023 - May 2024

- Developed and maintained comprehensive college portal with responsive user interfaces with **React JS** and **JavaScript**. Utilized **React Router** for seamless navigation and **state management** with **Recoil**.
- Created **RESTful APIs** using **Express JS** and **Node JS** to handle data and administrative functions.
- Designed and implemented complex SQL queries and **stores procedures** for efficient **data retrieval** and manipulation.
- Implemented caching with **Redis** to **reduce database load by 40%**, enhancing responses times and achieving significant cost savings.
- Optimized server resource utilization by configuring auto-scaling and load balancing on **Microsoft Azure**, **reducing operational costs by 30%** while maintaining high application availability.

Environment: React.js, JavaScript, Recoil, React Router, Node.js, Express.js, Redis, SQL, MySQL, Stored Procedures, Microsoft Azure, Git, VS Code.

Associate Software Engineer | Internship | Wipro | Chennai, India

Jan 2022 - Jun 2022

- Designed and implemented a **Single Page Applications (SPA)** using **React** and **Redux**, wiring up to **State Stores, Components, Containers, Action Creators** and **Reducers**.
- Designed and Developed UI using **JavaScript, ReactJS and TypeScript**. Implemented login component with **React/Redux** for **Single Sign-On** and **Multi-Factor Authentication**.
- Configured roles such as **Client, Identity Provider, and Resource Service** in **OAuth 2.0** on **Okta**.
- Worked with **Node JS** and **Express JS** to build microservices, Utilizing **JWT** for authentication. Designed **MongoDB** schemas and data access services for efficient interaction with the data storage layer.
- Implemented **Docker** for container orchestration, **reducing operational costs by 25%** through efficient resource utilization and minimized downtime
- Integrated automated testing with **Jest** and **Mocha** into **Jenkins CI/CD pipeline**, **enhancing development efficiency by 30%** and accelerating deployment processes.

Environment: HTML5, CSS, JavaScript, React, Express, Node, JWT, OAuth2.0(Okta), MongoDB, Jenkins, Docker, Jest, Mocha.

Web Developer Intern |1STOPAI | Hyderabad, India

Apr 2020 - Jun 2020

- Developed responsive and user-friendly **web interfaces**, improving job search functionality for over **50,000 active users**.
- Designed dynamic and multi-browser compatible pages using **HTML, CSS, JavaScript** to implement intuitive features that enhanced the user experience.
- Implemented interactive features such as forms, dropdown menus and pop-up screens with **JavaScript, jQuery**. server-side logic with **PHP** and **Python**, enhancing user journey efficiency and reducing page load times by **30%**.
- Involved in writing and optimizing **SQL queries, Stored Procedures**. Debugging webpages with **Firebug** and fixing issues.
- Testing browser compatibility and addressing browser compatibility issues. Used **Git** for version control system.
- Participated in **code reviews** and **pair programming sessions** to maintain code quality, share best practices.

Environment: HTML, CSS, JavaScript, PHP, jQuery, Python, Jupyter Notebook, NumPy, Pandas, Scikit-learn, MySQL.

PROJECT WORK

Azure Cloud Based Expenses Tracking System (Python | Azure Cloud)

- Developed an expense tracker application using **Python** and **Java Script** hosted on the **Azure cloud platform**, focusing on user expense tracking, categorization, and report generation.
- Utilized **Flask/Django** to create a **robust** and **scalable backend**. Implement backend functionalities using **Azure Functions**, enabling auto-scaling and cost optimization based on usage.
- Leveraged multiple **Azure services** to implement various functionalities. Store user data, including expense records in **Azure SQL Database** and **Cosmos DB** for scalability and reliability

Sentimental Stock Analysis Based on News Headlines (Python | Machine Learning)

- Developed a sophisticated analytical tool leveraging **Natural Language Processing (NLP)** to gauge the sentiment of news headlines and correlate it with stock market performance using **Python** and **Machine Learning models**.
- Employed NLP libraries such as **NLTK, Text Blob** to perform sentiment analysis on news headlines. Experimented with advanced models like **BERT** from Hugging Face transformers for **enhanced accuracy**.
- Utilized **Pandas** for **data manipulation** and **Matplotlib** for **visualizing trends** and correlations between news sentiment and stock prices.
- Applied **Machine Learning models** using **Scikit-learn** to predict stock price movements based on historic sentiment data. **Enhanced prediction accuracy by 15%** through the integration of **Advanced NLP Models**.

Online Bus Booking Portal (JavaScript | React | Node | Express | Mongo DB)

- Developed a fully featured online bus booking portal it lets users sign up, log in and book tickets, and the option to select a preferred seat, make payment and generate a journey summary.
- Developed using HTML, CSS, JavaScript, React JS, Express JS, Mongo DB.

ACHIEVEMENTS

- ✓ Completed numerous courses on Azure Services through Microsoft Learn.
- ✓ Achieved proficiency recognition through successful qualification in Hacker Rank Skill Verification Test for Problem Solving, Python and SQL
- ✓ Conducted Research and Published a paper on Distributed and Concurrent Data Structures.

CERTIFICATIONS

- ✓ **Microsoft Certified:** Azure Fundamentals - AZ900, Data Fundamentals – DP900.
- ✓ **Udemy:** Complete Python Bootcamp, Programming in C.
- ✓ **Coursera:** Database Design and Programming with SQL, Web Development.