Manyu Dhyani

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Education

Stevens Institute of Technology **September 2022 – May 2024**
Master of Science in Computer Science, CGPA: 3.9/4 *Hoboken, New Jersey*
Coursework: Web Programming I, Distributed Systems and Cloud Computing, Computer Organization and Programming, Web Mining, Knowledge Discovery and Data Mining, Web Programming II, Big Data Technologies, Agile Software Development, Cyber Security, Database Design

Dr. APJ Abdul Kalam Technical University, Lucknow, India **Aug 2016 – Sep 2020**
Bachelor of Technology in Computer Science and Engineering, CGPA: 3.75/4 *Lucknow, India*

Experience

HealthXchange INT'L INC. **July 2024**
Software Developer *Delaware, US*
- Developed scalable **microservices with MongoDB integration for a dental portal using Django, FastAPI and REST framwork**, enabling seamless appointment booking and procedure history retrieval with a **30%** boost in search efficiency
- Deployed **Redis caching** to accelerate patient data retrieval, reducing server load by **40%** and ensuring high availability through fault-tolerant mechanisms
- Streamlined database operations **using MongoDB and PyMongo**, ensuring data consistency and improving query performance for faster appointment management, while implementing **CI/CD pipelines** for automated testing and deployment
- Containerized and deployed the application using **Docker on AWS**, ensuring high scalability, seamless updates, and improved deployment efficiency

Traveloft India Private Limited, Dehradun, India **June 2019 – August 2022**
Senior Software Developer *Dehradun, India*
- Led & Built **Customer Relationship Management (CRM)** system using **MERN stack**, for Company's B2B clients, customers & Potential leads. Leads-to-customer conversion and Business consultations increase by **35%**
- Leveraged **Node.js, MongoDB, Redis, and FastAPI** to architect a robust Tourism and Hospitality platform featuring E-commerce capabilities and integrated microservices
- Engineered and implemented **REST APIs for a Business Analytics Dashboard using Django, PostgreSQL, Redis, TypeScript, and FastAPI**. This enabled real-time monitoring and drove a **40%** improvement in decision-making efficiency
- Developed and integrated tools and microservices using **FastAPI and RabbitMQ, such as Chatbot Assistance, and CKEditor 5**. This resulted in a **25%** increase in user engagement and enhanced navigation efficiency.
- Streamlined **AWS EC2 and S3 Buckets deployment using GitHub Actions**, significantly reducing deployment time and enhancing operational efficiency
- Strategically leveraged **JIRA to manage Agile cycles**, boosting collaboration and accelerating delivery timelines, which significantly increased throughput

Academic Projects

MovieMaster OTT Platform | *Flask, React.js, Node.js, Redis, Firebase, MongoDB, AWS* | *Link* **May 2023**
- Designed and developed the platform's front end using **React**. Collaborated to implement a unique feature of comments and chatrooms for each movie using **Socket.io**, resulting in a significant boost in user engagement
- Integrated a **recommender engine** that suggests movies based on genres and movies. Developed an API and implemented **Redis for caching results**, significantly enhancing user experience by reducing loading time
- Deployed and managed three instances of **Flask-server, Express-server, and React-server** on an **AWS EC2 with Nginx**, ensuring secure communication with SSL certificates

Influence of Word Choice on African American English | *Numpy, Pandas, Matplotlib, Spacy, Scipy* | *Link* **May 2023**
- Analyzed the impact of word choice on hate speech classification for African American English (AAE) and spam detection on social media platforms using a multi-stage architecture with **NumPy, Pandas, Matplotlib, Spacy, and Scipy**
- Developed an integrated **pipeline combining hate speech detection, AAE detection, and Word2vec for word replacement, optimizing data flow and effectively reducing bias in tweets** by identifying and replacing offensive language

Skills

Programming Languages: Python, JavaScript, TypeScript, Java, Golang, C, C++
Backend Technologies: Django, Flask, FastAPI, DRF, Node.js, Express.js, Redis, RabbitMQ, Redis Streams, Redux, React.js, GraphQL, Machine Learning
Database: MongoDB, PostgreSQL
Tools: GIT, CI/CD, SQL, Linux, Postman, Docker, Kubernetes, Amazon Web Services (AWS)