

Tharun Chaparala

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EDUCATION

Illinois Institute of Technology | Chicago, IL, USA

Aug 2022 - May 2024

Master of Science | Computer science

- Awarded **Graduate Pathway Scholarship** for showing a bright background in the domain of the major.

SRM University AP | Amaravati, AP, India

Aug 2017 - Jun 2021

Bachelor of Technology | Computer science and Engineering

- **Teaching Assistant** – Coaching and Mentoring 100+ students in Python and Statistics (Feb 2019 – May 2021)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Kotlin, Php, R, HTML5, CSS3, Java, SQL, Ruby, R, C++, C, C#

Tools and Technologies: web application development, RESTful APIs, NoSQL and SQL databases, Data Science (data cleaning, processing and analysis), Cloud services (AWS, Azure, GCP), Problem-solving skills, data structures and Algorithms, version control systems

EXPERIENCE

Full Stack Developer Intern | DevTown, Bengaluru, India

August 2021 – Jun 2022

- full-stack web development using the MERN stack and Tailwind CSS for rapid UI development, demonstrating strong coding ability in JavaScript, while adhering to Agile methodologies and utilizing JIRA for task management, sprint planning and quality assurance to ensure timely and robust delivery throughout the development life cycle.
- Collaboration with cross-functional teams to gather requirements, implement features and ensure seamless integration, while developing REST APIs, conducted unit testing, performing code review, and designing microservices for scalable and modular backend architecture, showcasing my communication skills and working with web services to integrate various components.

Project Intern | Signer Tech Solutions Pvt.Ltd., Hyderabad, India

May 2019 – Jun 2019

- Web application development using Python, Django, and functional programming, ensuring robust performance and enhancing debugging skills.
- Collaborated with teams for seamless IT integration and deployment, while creating automated testing scripts, utilizing Redis for session management and MySQL for flexible data handling.

Project intern | Rapture, Chennai, India

Dec 2017 – Feb 2018

- Implemented object recognition and image classification methods using machine learning and computer vision techniques following waterfall development processes and introducing process improvements to enhance efficiency and model accuracy.
- Trained and evaluated models using PyTorch. Worked with large datasets and used Data processing techniques to prepare data for training and testing.

PROJECTS

Intelligent Issue Tracking and Analysis Dashboard for GitHub repo

Dynamic dashboard offering real-time insights based on Artificial Intelligence to make Data-driven decisions for project management

- Engineered a real-time GitHub issue tracking dashboard using React, Node.js and Flask, leveraging OpenAI-powered similarity analysis and store data in Elasticsearch. Deployed on Gcp as a Docker image.
- Employed data cleaning and analysis techniques with PySpark, NumPy and Pandas to process GitHub data, using data visualization to generate trends, interactive charts and duplicate tracking for enhancing project management.

Cross-Platform E-Commerce Application

Pixel-perfect React native web and Mobile app built with visual design principles, demonstrating my versatile coding and design skills

- Developed a minimalistic e-commerce store for web and mobile platforms, utilizing React Native, Babel and Expo with TypeScript React Hooks for state management, and component-based architecture for Responsiveness. Incorporated UI/UX design elements to ensure a smooth and engaging user journey.
- Built seamless backend connectivity with Fastapi, crafting REST APIs, integrating OAuth2.0 for authentication purpose, Deployed the backend on AWS and frontend on Vercel, and implemented DevOps practices with CI/CD pipelines for automated testing and deployment.

Ebazaar, E-Commerce Platform

Implemented an E-commerce Application to help local businesses sell products online during the pandemic

- Built the platform using React for front-end, integrating Redux to manage global state across the application, improving performance and consistency in data handling, and using Node.js with Express for the back end, integrated MongoDB database for scalable data management, utilizing Bootstrap CSS for responsive design and customization.
- Integrated GraphQL for efficient data querying and management, along with features to manage and track customer sales data. Utilized Git for version control, and established CI/CD pipelines for automated testing and deployment, ensuring high-quality code and security best practices.

ASSOCIATIONS & ACHIEVEMENTS

Financial Team, Tech-fest organizing committee | SRM University, AP, India

March 2019 – May 2021

Runner of RoboFeast-2018 | IIT Roorkee, India

March 2018