

MANISH CHIKKAVADARAGUDI PRASANNA KUMAR

SOFTWARE ENGINEER

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EDUCATION

Northeastern University (GPA:3.69/4)

Expected May 2025

Master of Science in Software Engineering Systems

Boston, MA

- Relevant Coursework: Enterprise Software Design, Object Oriented Design in Java, User Experience Design and Testing

Vellore Institute of Technology (GPA:8.55/10)

May 2023

Bachelor of Engineering in Computer Science and Business Systems

Vellore, IN

- Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Operations Research, Data Science, Design and Analysis of Algorithms, Cloud and Microservices, Software Engineering Methodologies(Agile), Financial Management

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C#

Frontend Dev: HTML, CSS, React, AJAX, Bootstrap, jQuery **Testing:** Jest, Selenium **Design:** Figma **Version Control:** Git

Backend Dev: Spring Boot, JSP, RESTful APIs, NodeJS, ASP.NET, WPF **Database & ORM:** SQL, MySQL, MSSQL, Hibernate

Certifications: AWS Certified Cloud Practitioner (Nov '22 – Nov '25)

EXPERIENCE

Indian Space Research Organisation – (ISRO–ISTRAC)

Mar 2023 – May 2023

Software Engineer (Project Trainee)

Bangalore, IN

- Collaborated with a multidisciplinary team of scientists and engineers, in the development of a cutting-edge debris tracking model utilizing **MATLAB**, aimed at enhancing space debris monitoring.
- Applied advanced algorithms to process data from ground-based radar systems, improving pass success and coverage by 20% through optimized time and azimuth adjustments, bolstering space situational awareness initiatives.

Papersdrop (VIT incubator)

Apr 2022 – Nov 2022

Full Stack Development Intern

Vellore, IN

- Implemented an internal blogging platform a startup incubated at VIT, optimizing search, pagination, login authentication, and SEO strategies, increasing visibility by 30% and enhancing user experience
- Utilized **Flask** to create **CRUD API** operations, integrating MongoDB database for efficient data management, and contributed to designing UI pages later developed in **React**, ensuring a seamless and visually appealing blogging platform and writing clean code.

PROJECTS

Inhabit | Flask, Python, HTML, CSS, JavaScript

Feb 2024

- Spearheaded the development of a gamified web app at the BU hackathon promoting urban sustainability. Focused on delivering quality end-user-facing products, resulting in an engaging and intuitive application that enhanced user participation and UX.
- Leveraged Flask and Python for backend functionality, while employing Figma for design and React for frontend implementation. MySQL served as the database backbone, ensuring seamless integration of features within the tech stack.

Car Rental System | Spring Boot, Hibernate, MySQL, HTML, CSS, Thymeleaf, JavaScript

Dec 2023

- Developed an enterprise-level **Java EE** application for a large-scale rental service using the **MVC** design pattern. Implemented scalable Data Access Objects (**DAO**) with Hibernate for robust database interactions. Created seamless user authentication with Spring Security and designed reusable, user-friendly templates with Thymeleaf.
- Solved issues with duplicate entries, simultaneous bookings, and schema design by implementing unique constraints, transaction management, and locking mechanisms. Used normalization, indexing, concurrency control, and message queue to optimize performance, scalability, and reliability.

Hostel Directory Management System | C#, Windows Presentation Foundation, MVVM, Entity Framework, UserControls

Jul 2023

- Developed a Windows application using **MVVM** architecture, focusing on modular UI components like UserControls. Implemented Messenger for publish/subscribe communication between ViewModels.
- Integrated Entity Framework for database operations, ensuring unique student IDs and dynamic content sizing for a responsive interface, with implicit and explicit UI styling for consistency.

PUBLICATIONS

- “MEDICAL DIAGNOSIS OF MALARIA USING FUZZY APPROACH”, Manish.CP, Akhil Chaitanya Ghanta, Dr.J Ravi Sankar, International Journal of Creative Research Thoughts (IJCRT), ISSN:2 320-2882, Vol.10, Issue 10, pp.d782-d787, Oct 2022.
- “ACCUJOB-JOB SEARCH AND OPTIMIZATION WEBSITE”, Akhil Chaitanya Ghanta, Manish CP, Sanjay Muzumdar, Dr. Swarnalata P, International Journal of Creative Research Thoughts, ISSN:2320-2882, Vol.10, Issue 10, pp.c69-c83, Oct 2022.