MANISH CP
FULL STACK DEVELOPER

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EDUCATION

Northeastern University   **Expected May 2025**
Master of Science in Software Engineering Systems   Boston, MA
- Relevant Coursework: Enterprise Software Design, Object Oriented Design in Java, Program Structures and Algorithms, User Experience Design and Testing

Vellore Institute of Technology   **May 2023**
Bachelor of Engineering in Computer Science and Business Systems   Vellore, IN
- Relevant Coursework: Data Structures and Algorithms, Database Management, Computer Architecture, Data Science, Operating Systems, Data Privacy, Cryptology, Cloud and Microservices, Intro. to Internet of Things

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript
Frontend Dev: HTML, CSS, React, AJAX, Bootstrap   **Data Visualization**: Chartjs, D3js, CanvasJS   **Design**: Figma   **VC**: Git
Backend Dev: Spring Boot, JSP, Django, RESTful APIs, Node.js   **Database & ORM**: SQL, Hibernate, MySQL, MongoDB
Certifications: AWS Certified Cloud Practitioner (Nov '22 – Nov '25)

EXPERIENCE

Indian Space Research Organisation – (ISRO–ISTRAC)   **Feb 2023 – Apr 2023**
Project Trainee/Developer   Bangalore, IN
- Collaborated with a multidisciplinary team, embodying strong teamwork and effective dialogue 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 to assess pass success and coverage by adjusting time and azimuth limits, contributing to the organization's space situational awareness initiatives.

PROJECTS

Car Rental System | *Spring Boot, Hibernate, MySQL, HTML, CSS, Thymeleaf, JavaScript*   **Dec 2023**
- Developed an enterprise-level Java EE application, based on an MVC design pattern, and implemented scalable Data Access Objects (DAO) with Hibernate for robust database interactions.
- Created seamless user authentication using spring security, reservation management, and fleet tracking features, emphasizing data integrity and system reliability, created reusable and user-friendly templates using Thymeleaf.
- Adhered to Object-Oriented design principles and enacted Agile software development lifecycle (SDLC) to ensure iterative development, collaboration, and responsiveness to changing project requirements.

Predicting Skin Cancer Types Using Lesion Image Diagnosis | *Python, TensorFlow, Scikit-learn*   **Feb 2023**
- Leveraged transfer learning techniques to leverage pre-trained CNN architectures, enhancing model efficiency and performance for skin cancer classification with a 92% accuracy rate, surpassing baseline models.
- Conducted rigorous validation using an independent dataset to ensure the model's robustness.
- Collaborated with experts to fine-tune the model's hyperparameters and optimize its diagnostic precision and successfully implemented a real-time diagnosis interface, achieving a high accuracy of 93% for a specific skin cancer.

Accujob-Job Search And Optimization Website | *MongoDB, ExpressJS, React, Node.js*   **Oct 2022**
- Led a team in engineering a platform to facilitate seamless job matching based on skill preferences for both job seekers and employers, devising a highly effective skill-based algorithm that achieved a 90% success prediction accuracy.
- Optimized user experience by presenting job seeker suitability, enhancing overall recruitment efficiency.

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.