

Manbendra Satpathy

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CAREER OBJECTIVE

To innovate and grow while building impactful software solutions in a leading tech company.

EDUCATION

Amrita Vishwa Vidyapeetham <i>Bachelor of Technology in Computer Science , CGPA : 8.52</i>	Coimbatore , Tamil Nadu , India 2021 - 2025
Mother's Public School <i>All India Senior Secondary School Examination , Percentage : 94.6%</i>	Bhubaneswar , Odisha , India 2020 - 2021
Mother's Public School <i>All India Secondary School Examination , Percentage : 95%</i>	Bhubaneswar , Odisha , India 2018 - 2019

EXPERIENCE

Project Intern <i>Tata Consultancy Services</i>	Jun. 2024 – Aug. 2024
<ul style="list-style-type: none">Optimized software delivery with efficient, automated CI/CD workflows.Managed codebases and automated builds with Git, Jenkins, Docker, and Kubernetes.Proficient in infrastructure automation and deployed IaC initiatives successfully with Terraform and Ansible.Gained experience in cloud computing, leveraging AWS services for project enhancement.	
Apprenticeship - Cyber Risk and Regulatory Launchpad <i>PwC Acceleration Centers</i>	Feb. 2024 – Jul. 2024 <i>Remote</i>
<ul style="list-style-type: none">Gained a solid grasp of Python and Java through hands on coding exercises and task completion.Developed expertise in RDBMS through study and application of database theory.Gained practical DevOps skills by learning Jenkins, Git, and AWS services.Enhanced Cyber Security knowledge through training in security protocols and coursework.	

PROJECTS

Command and Control (C2) Server <i>Python , AWS</i>	July 2024 - Present
<ul style="list-style-type: none">Developing a C2 server to manage and execute commands on compromised systems remotely.Integrated functionalities for reconnaissance, system data collection, and remote execution of commands.Securing communication for persistent command execution between server and target systems.	
Machine Learning Based Classical Cipher Classifier <i>Python</i>	Jul. 2023
<ul style="list-style-type: none">Developed a machine learning classifier for distinguishing classical ciphers.Measured by the model's accuracy in predicting encryption methods for new ciphertexts.Achieved through training on labeled examples from various ciphers.	
Ship Detection from Aerial Images <i>Python , YOLOv8</i>	Apr. 2023
<ul style="list-style-type: none">Developed and deployed a ship detection system using the advanced YOLOv8 framework for aerial image analysis.Achieved high-accuracy ship localization as measured by precision and recall metrics.Optimized YOLOv8 for real-time ship detection after refining a varied dataset.	
Hospital Management System <i>HTML , CSS , JavaScript , Node.js</i>	Nov. 2022
<ul style="list-style-type: none">Implemented patient data management using Node.js for data handling.Built appointment scheduling system with JavaScript for validation.Designed responsive UI using HTML and CSS.	

TECHNICAL SKILLS

Languages : C , C++ , Java , Python

Database : SQL , MongoDB

Web Development : HTML , CSS , JavaScript , Django , Express.js , Angular , Node.js , Flask

APIs : FastAPI , GraphQL , RESTful API

Developer Tools : Git , Docker , Kubernetes , Jenkins , Terraform , Ansible , Splunk , Grafana

Cloud Computing : Amazon Web Services , Google Cloud Platform

Machine Learning : Natural Language Processing , Large Language Models , Generative AI

Generative AI and LLMs : Prompt Engineering , Multimodal Architectures , OpenAI GPT Models

Libraries : Scikit-Learn , NumPy , Pandas , TensorFlow , Keras , PyTorch , PySpark , NLTK

Security & Forensics Tools : Wireshark , Burp Suite , Autopsy , FTK (Forensic Toolkit)

Operating System and Scripting : Linux/Unix , Bash Scripting

Core Computer Science Fundamentals : RISC , CISC , DSA , Computer Networks , Agile Methodology

Testing : Unit Testing , Integration Testing , Manual Testing

HACKATHONS

FIN - A - THON

Nov. 2023

South Indian Bank (SIB)

IIT Delhi , New Delhi , India

- Reached the Fin-A-Thon national finale with a four-member team.
- Secured a top 15 ranking among competing teams in the Fin-A-Thon.
- Co-created a strategic game for banking apps to boost user engagement.