

Anandapadmanabhan Santhosh

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EDUCATION

Stony Brook University

Master of Science in Computer Science | GPA: 3.5/4

New York

August 2024 - May 2026

- **Coursework:** System Security, Human Computer Interaction, Computer Vision, Computational Biology, Operating Systems (Linux Kernel Programming), Storage Systems

Birla Institute of Technology and Science, Pilani

Bachelor of Engineering in Computer Science | GPA: 8.26/10

Hyderabad

August 2019 - July 2023

- **Coursework:** C Programming, Data Structures and Algorithms, Database Systems, Machine Learning, Object Oriented Programming, Design and Analysis of Algorithms, Computer Networks

PROFESSIONAL EXPERIENCE

Nykaa

Software Engineer

Bangalore

July 2023 – August 2024

- Improved website go-live time by 90% (8 hrs → 45 min) by developing a catalog feed microservice using Java and Spring, removing dependency on legacy monoliths.
- Transitioned to the Rating-Review team, contributing to the Virtual Try-On (VTO) feature using Python (Flask) and third-party APIs provided by Modiface.

Licious

Software Engineer Intern

Bangalore

January 2023 – June 2023

- Refactored legacy code to carve out a dedicated order microservice using Java and Spring, improving modularity and maintainability.
- Migrated redundant monolith API calls to efficient service-based implementations, enhancing code reliability and scalability.

RESEARCH EXPERIENCE

Computer Science and Information Systems @ BITS Pilani Hyderabad Campus

Student Researcher (Under Prof. Tathagata Ray)

Hyderabad

Jul 2021 - Dec 2022

- DRDO-Affiliated Computer Vision Project (BITS Pilani)
- Integrated stereo vision techniques for 3D spatial modeling of aerospace components using OpenCV.
- Developed object detection and alignment algorithms aligned with CAD model coordinates for precise robotic assembly.

PROJECTS

GestureBoard – Real-time Collaborative Whiteboard

Technologies: React.js, Firebase, MediaPipe, HTML Canvas

Github

- Developed a multi-user whiteboard that uses webcam-based hand gestures for drawing, cursor movement, and erasing.
- Real-time updates achieved via Firebase; gesture control implemented using MediaPipe landmarks.

Storage Systems Projects

Technologies: Bash, Linux Filesystems

Github

- Built courselets simulating btrfs features: RAID, deduplication, compression, and snapshots.
- Worked with wrapfs, a stackable Linux filesystem.

Car Wash enterprise application (Database systems)

Technologies: Django, MySQL, HTML/CSS, Bootstrap

- Developed a full-stack web application for managing car wash operations, featuring separate interfaces for

admin and employees.

- Implemented admin functionalities to manage employees, assign/remove service tasks, and track service progress in real time.
- Designed employee dashboard to receive service assignments dynamically and mark them complete upon execution.
- Utilized Django for backend logic and routing, and integrated with MySQL to maintain relational data for users, services, and assignments.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript

Web Technologies: Spring Boot, Flask, React.js

Database Systems: SQL, MongoDB, DynamoDB, Cloud Firestore

Data Science & Machine Learning: OpenCV

Cloud Technologies: AWS S3

DevOps & Version Control: Git, Docker

Tools & Platforms: Bitbucket, Jira, Confluence, IntelliJ IDEA, PyCharm, VS Code