

MANSHER SINGH

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<https://mansher-portfolio.vercel.app/home> · Location - Bangalore

Aspiring Software Engineer passionate about **Full-Stack Development**. Currently seeking roles in **software and/or web development**, and **cloud-based application development**.

EDUCATION and SKILLS

Ashoka University, India

2021-2025

- **P.G.D.** in Advanced Studies and Research - Ashoka | CGPA: **3.77/4** Graduated **Magna Cum Laude**
Advanced Major in **Computer Science**, Minor in **Entrepreneurship** (2025)
- **B.Sc (Hons)** in **Computer Science** (2024) | CGPA: **3.32/4**

Teaching Assistant x2 | Operating Systems • Design & Analysis of Algorithms

Aug 2023 - May 2024

Selected **twice** for a **competitive paid** TA role during UG and PG studies.

Subjects / Electives - AI · Data Analytics · Cloud Computing · Computer Security · Data Structures · NLP

Skills - Programming, Python3, SQL, Firebase, Pandas, Docker, Node.js, Flutter, NextJS, Figma, SML, Tensorflow, Power BI, Flask, C Programming, JavaScript, Scikit-Learn, Scala, SciPy, PyTorch

PROFESSIONAL EXPERIENCE

ZOOL TECH SOLUTIONS PVT. LTD, Bangalore, India | **Intern in Front-End Web Dev**

Jun 2024 - Aug 2024

- Developed responsive **web applications**, enhancing user experience through advanced features.
- Implemented front & back-end features using **Next.js**, **Tailwind CSS**, **MongoDB**, **Node.js**, and **Express.js**.

MONADIC INC., California, U.S.A | **Independent Software Contractor (Remote)**

Jun 2023 - Aug 2023

Worked on wet.ink, an e-learning platform, and optimised **database-site integration**

- Designed and executed test cases, **reducing system bugs by 30%**.
- Improved backend reliability and **collaborated with engineering teams** to enhance performance.

MONEYVIEW, Bangalore, India | **Intern in Analytics Pod**

May 2022 - July 2022

- Analysed **large SMS datasets** using Scikit-learn, SciPy, and **regression models**.
- Developed a **machine learning model** predicting customer behaviour trends, **boosting marketing success**.

DUXMEDIA LLP, Bangalore, India | **Production Assistant**

Jun 2023 - Aug 2024

- Worked on several high-profile live events - **GitHub Constellation** 2024, **Google IO Connect** 2023 and 2024, **YouTube FanFest** 2024, and Fireside chats at **Google**.
- Coordinated with onsite event agencies and acted as **Client Liaison**.

PROJECTS (All Code available on Github)

Cloud Computing & Deployment (3-person team)

March 2025 - May 2025

- Developed a **full-stack mobile application** deployed to the **cloud** with **Dockerised microservices**.
- Incorporated **external databases**, optimising for **scalability** and **cloud efficiency**.
- Built with **AWS EC2**, **Lambda**, **S3**, **Flutter**, **Flask**, and **Postgres**.

Food Computing App - Capstone Project

Aug 2024 - Dec 2024

- Created a **web app** that integrates a **food knowledge graph** with a **querying software** and **UI**
- Built using **Next.js**, **Flask** and a Web Ontology (owlready2).

Mood-Based Music Recommender | Natural Language Processing

Apr 2024 - May 2024

- Created a program, based on the **Roberta Model**, that suggests and categorises music **based on the emotion** in song lyrics and user input.
- It is also capable of **generating playlists** tailored to specific moods.

Encrypted Password Manager | Computer Security and Privacy

Apr 2024 - May 2024

- Developed using **Dash**, **Flask**, HTML/CSS, **SQLite3** and securely stores encrypted credentials server-side.

Stock Prediction tool | Machine Learning

Nov 2023

- Developed using **Dash**, **Flask**, HTML/CSS as a final project for the Machine Learning course