

# Sparsh Sunil Hurkat

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Website - [sparshhurkat.vercel.app](https://sparshhurkat.vercel.app)

## Objective

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Software developer with a strong foundation in electronics and a keen interest in artificial intelligence. Seeking to pursue a Master's in Computer Science to deepen my knowledge in the field, and contribute to research and innovation advancing the development of interactive software and intuitive cyber-physical systems.

## Education

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**Bachelor of Technology in Electronics and Communication Engineering** **May 2022**

Vellore Institute of Technology, Vellore, India

**GPA: 8.3/10**

*Coursework: Data Structures and Algorithms, Problem Solving and OOP, Statistics for Engineering, Neural Networks & Deep Learning, Artificial Intelligence with Python, Machine Learning Fundamentals, Advanced Java Programming.*

**12th Higher Secondary Certificate: Maharashtra HSC Board** **May 2018**

Pace Junior Science College, Dadar, Mumbai, India

**Aggregate: 83%**

**10th Secondary School Certificate: ICSE Board** **May 2016**

Arya Vidya Mandir, Bandra West, Mumbai, India

**Aggregate: 90%**

## Professional Experience

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**Software Development Engineer - 2, Moneyview (Fintech), Bangalore, India** **Oct 2024 – Present**

- Revamping the main website and its CMS tool by migrating to Next.js to replace outdated tech stack for improved performance, SEO, scalability, security & maintainability.

**Software Development Engineer - 1, Moneyview (Fintech), Bangalore, India** **Jul 2022 – Sep 2024**

- Led the development of VideoKYC portal by migrating from an external video conferencing tool to an in-house solution, boosting customer video verification efficiency by 400% without additional cost.
- Developed and managed a comprehensive call management portal for all company-customer interactions, enabling a 2x increase in agent count and a 20% increase in monthly call volume.
- Created a portal for partner vendors to manage customer transactions using the buy-now-pay-later option, a new product line for the company which contributed to a 10% increase in revenue within a year of launch.
- Redesigned UI by implementing a standardized design system and a centralized component library, surging mobile page score by 40%. Upgraded React, implemented Typescript, and enhanced Fetch API.

## Internships

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**Software Development Engineer Intern, Moneyview (Fintech), Bangalore, India** **Mar 2022 – Jun 2022**

- Enhanced internal operations portal reliability and uptime by implementing comprehensive error-handling mechanisms to prevent system crashes and ensure data integrity.
- Led a team of 4 to develop a Loan Originating System microservice. Won 1st place in the New-Hire Hackathon for our innovative solution and adherence to industry programming standards.

**Experience Design Engineer (XDE) Intern, Them Consulting, Mumbai, India** **May 2021 – Jun 2021**

- Analyzed systematic approaches to design by concept generation and prototyping of a user-friendly wedding planning platform.
- Researched user-centered design and human-computer interaction to enhance UX and improve acquisition rates.

## Academic Projects

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### Bird Species Identification

Sep 2021 - Dec 2021

- Conducted a comparative study on 4 CNN architectures in their efficacy in species classification retrained on a dataset with over 275 classes, achieving an average model accuracy of 93%.
- Interfaced a ResNet50 model with a testing accuracy of 96% with a Streamlit web application, allowing real-time identification.

### Driver Fatigue Monitoring

Aug 2020 - Nov 2020

- Implemented a facial feature detection system using Python and OpenCV; Employed false positive mitigation strategies resulting in drowsy detection accuracy of 86%.
- Designed a custom circuit using Arduino Nano mounted on wearable lab glasses; Enabled IoT for real-time processing, monitoring, and alerts.

## Personal Projects

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### AI-Powered Interactive Portfolio - [github.com/sparsh-hurkat/spot](https://github.com/sparsh-hurkat/spot)

Jun 2024 - Jul 2024

- Incorporated an LLM Chatbot to improve user interactivity and retention, while demonstrating proficiency in LLM applications and expertise in full-stack web design and development using Next.js, REST API's and MySQL DB.
- Enhanced website performance by implementing Retrieval-Augmented Generation (RAG) using Langchain and a Pinecone VectorDB to ensure accurate results while reducing token consumption by 65%.

### E-commerce website for "The Gift Angels" - [github.com/sparsh-hurkat/gift-angels](https://github.com/sparsh-hurkat/gift-angels)

May 2019 - Nov 2019

- Operated the e-commerce platform for 6 months, managed digital inventory, implemented effective digital marketing and SEO strategies, driving a 30% increase in total sales.
- Implemented Image tracking Augmented Reality technology allowing users to overlay products onto their furniture, augmenting customer acquisition and interactivity while standing out in a competitive market.

## Skills & Certifications

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**Languages:** JavaScript, Java, Python, C++, MySQL, HTML, CSS, Verilog, Kotlin

**Libraries & Frameworks:** ReactJS, NextJS, ExpressJS, LangChain, PyTorch

**Tools & Platforms:** AWS S3, Spring Boot, Docker, Git, Jest, Figma, Arduino, MATLAB, Multisim

**Machine Learning:** Certification by Verzeo (Microsoft) - 2020

## Extracurricular Activities

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**Volunteer, U&I, Bangalore, India**

Jun 2023 - Sep 2023

- Volunteered with U&I's LIFT (Life Influential Functional Training) to teach basics of mathematics and programming to a class of 7 underprivileged students.

**Web Administrator, Board Member, IEEE Electromagnetic Compatibility Society, Vellore, India**

2021

- Inaugurated and established this new student chapter at VIT with a team of 10. Recognized in the 2021 IEEE Electromagnetic Compatibility Magazine, Volume 10 - Quarter 4.
- Managed website & digital marketing efforts to promote 3 webinars attracting over 100 attendees.

**Volunteer, Youth Red Cross Society, Vellore, India**

2018 - 2019

- Organized blood donation camps and health awareness programs, benefiting over 500 people in the community.
- Coordinated food and medical distributions in Cyclone Gaja relief camps and medical shelters.