Suraj Singh

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Education

C.V. Raman Global University — Nov 2021 – June 2024
Bachelor of Technology in Computer Science and Information Technology — *Bhubaneshwar, Odisha*

Achievements

Amazon — April 2023
- Ranked **228** globally out of **30,000+** teams in the **Amazon AI/ML Challenge Hackathon 2023**

Institute of Electrical and Electronics Engineers (IEEE) — July 2023
- Presenter at the **14th International Conference on Communication, Computing, and Networking Technologies (ICCCNT) by IEEE** at IIT Delhi in July 2023.

Research and Publications

C.V. Raman Global University — Dec 2022 – Present
Undergraduate Researcher – Machine Learning — *Bhubaneshwar, Odisha*
- Working with Prof Debendra Muduli and Santosh Sharma for advanced machine/deep learning research on **medical image classification** with accuracy rates exceeding **95%**.
- **Glaucoma Early Detection**: Developing an **Extreme Learning Machine** with Deep **Convolutional Neural Networks (CNN)** and **Transfer Learning** for Early-Stage Glaucoma Detection to prevent disease onset and preserve vision.
- **Alzheimer's disease Diagnostic:Hippocampus Detection** using advanced **image preprocessing techniques, Discrete Wavelet Transform** to advance early detection and diagnosis of Alzheimer's Decease

Experience

Roboslog Pvt Ltd — June 2022 – August 2022
Mobile Application Developer Intern — *Delhi, NCR*
- Developed scalable **E-commerce** transport project with client-side Agent and Driver apps, utilizing **XML** and **Java**.
- Efficiently managed server **API calls** with **JSON-POST/GET** and implemented server-side using **PHP** and **MySql**.
- Integrated **Razor-Pay** for secure payment processing with payment layout, OTP verification, and success/failure pages.
- Administrated transaction IDs and payment distribution for admin, agent, and driver to ensure security and scalability.
- Utilized **Firebase Realtime Database** and **Firestore** for data storage, synchronization, and authentication.

Projects

Animus - Social Media App | *OpenCV, E2EE, AES, Google AI/ML KIT, Alan-AI, Firebase, Java, Android Studio*
- Developed a Social Media Platform for users to make friends with the Animus app.
- Utilized **Advanced Encryption Standard (AES)** algorithm to make chats **End to End Encrypted(E2EE)**.
- Pioneered an in-app **AI Voice Assistant** allowing users to navigate the app using voice commands, via **Alan-AI**.
- Created **Avatar Creator** functionality using **Google ML Kit** and **OpenCV** for **image segmentation** and cartoonization.
- Features: Post feed, follow accounts, like/comment/share, chat, **Notifications**, Profile, Search, and Google Signup.

Twitter Clone - Full Stack Application | *Spring-boot, Reactjs, AWS-S3, Reduxjs, Java*
- Built a Twitter-like platform using **Spring Boot**, **ReactJS**, & **AWS S3** for image uploads.
- Implemented secure authentication with **JWT**, data mapping with **ModelMapper**, and optimized **REST APIs** for speed.
- Designed the UI with Tailwind CSS, enabled file uploads with **React Dropzone**, and managed state using **Redux Toolkit**.
- Leveraged **GraphQL** to optimize data fetching and manipulation, ensuring efficiency and optimization.

Positions and Responsibilities

- Open Source Contributor at **Girlscript Summer of Code (GSSoC 2023)**.
- Open Source Contributor at **Social Summer of Code 2023 (SSOC 2023)**.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio
Technologies/Frameworks: Linux, Jenkins, GitHub, JUnit, WordPress, IntelliJ, VSCode, Git, Jupiter, Anaconda, PostMan, Flutter, NLP, Transformers, Pytorch, Tensorflow, Linux, Shell Scripting