

# Somyaranjan Rout

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237 McClelland Avenue, Glassboro, New Jersey, United States

## EDUCATION

### Master's in Computer Science,

Rowan University | NJ, USA

Jan 2022 – Dec 2023 | GPA 3.3/4.0

Cloud Computing, Design & Analysis of Algorithms, System Modeling, Database Systems, Object-Oriented Design, Agile Software Development

### Bachelor's of Computer Science and

Engineering, Parul University | Gujarat, India

May 2021 | GPA 3.3/4.0

Operating Systems, Network Security, Big Data Analytics, Distributed Systems, Java Microservices, Artificial Intelligence, System Designing

## SKILLS

**Languages:** (Python, Javascript, Typescript, Java, C/C++, SQL, HTML, SASS, CSS, BASH)

**Frameworks:** (Django, REST APIs, Flask, React.js, Node.js, Express, Next.js, Tailwindcss, Docker, Git, PyQt5, Terraform, Pandas, NumPy, OAuth, ArcGIS, TensorFlow, Keras, OpenCV, Mongoose, Spring Boot, SQLAlchemy, Matplotlib)

**Tools:** (AWS, GCP, Azure, GIT, SQL Injection, NoSQL, PostgreSQL, MongoDB, Kali Linux, JSON, Burp Suite, Figma, Final Cut Pro, Canva, Adobe Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Penetration Testing, Kubernetes)

**Soft Skills:** (Communication, Professionalism, Critical thinking, Enthusiastic, Problem-Solving, Teamwork, Leadership, Time Management, Adaptability, Collaboration, Troubleshooting)

## PROJECTS

### PreScript, Rowan University | May 2022

Developed a web app for medical note-taking using NLP, providing medical workers with insightful analysis and patient management.

### Derm AI, Parul University | Sept 2020

Developed a system for skin disease prognosis and diagnosis using **deep learning**. Utilized RGB images as input and applied **feature extraction** techniques to improve **image classification**.

### POSEitive, AppFest by Google Developers Group Baroda | Dec 2019

Developed a web app, monitors & corrects body posture using **pose estimation** techniques.

## LEADERSHIP

### Institute Lead, AWS Student Club | Google Developer Student Club | 2020 – 2021

**Mentored 200+ students** about **GCP** and **AWS** cloud services. Delivered a **Webinar** about Cloud Computing in AWS & presented how to create apps on **IAAS** cloud, achieved a **95% satisfaction** rate.

### Technical Event Coordinator, PU Projection - Annual Technical Festival | 2019 - 2020

Coordinated **events** for two consecutive years and managed over **300+ participants**. Won an **award** for the **Best Technical Event**.

## EXPERIENCE

### Graduate Summer Intern, iTranSS Lab | Rowan University

May 2023 – Present | Glassboro, NJ, United States

- **Automated GIS tasks, resulting in a 90% reduction** in manual work on the Distracted Driving Project & developed **Windows app** to **analyze & validate** dataset of **10,000+ images, resulting 70% reduction in processing time & improving team productivity by 50%**. Collected Data from **10 routes** in New Jersey, totaling over **5,000 data** points.

### Graduate Assistant Developer, Rowan CREATES | Rowan University

Oct 2022 – Present | Glassboro, NJ, United States

- Developed and designed **website** and **CMS** using **React.js, MongoDB Atlas, Django, Docker & AWS**, enabling easy content updates that **led to 80% boost in page views**.
- Edited lab materials with **Adobe Software & Final Cut** to create multimedia content **resulting in a significant 60% boost in user engagement**.

### Event Assistant, University Events, Office of the President | Rowan University

Sep 2022 – Present | New Jersey, United States

- Developing an **Inventory Management & Lending System** to **streamline operations & improving productivity** using the **MERN stack** resulting in a **50% increase in operational efficiency** & deployed on **Rowan Cloud**. Coordinated the logistics for the events using the **MarchingOrder**, **50% reduction** in event setup time & created web pages using **Rowan CMS, resulting in a 25% improvement in content comprehension**.

### Full Stack Developer, iNeuron.ai

Dec 2020 – Jan 2022 | Bangalore, India

- Developed and deployed **20+ Data Science projects** using various technologies, including **Python, Javascript, Docker, PostgreSQL, MongoDB & AWS**.
- Created a **resume management portal** using Django, utilized by **5000+ students** for **organizing and managing** their resumes. Developed **50+ web pages** using **vanilla CSS and JS, enhancing user experience** by creating **responsive pages integrated with APIs**.

### Full Stack Developer, Manentia Advisory

Aug 2020 – Sep 2021 | Remote, India

- **Co-founded & created** a platform for medical workers to **analyze X-ray images**, led to **25% reduction** in diagnosis time using **ML React.js, Docker, Kubernetes, & AWS**.
- Implemented **CI/CD pipeline** using **GitHub Actions**, reducing deployment time by **50%**.
- **Trained and implemented a robust image classification model (VGG19 CNN)** for the platform's Beta version, **achieving an accuracy of 95% in analyzing X-ray images**.
- Designed branding elements and visual content using **Adobe Software, Final Cut Pro, Figma, & Canva**, resulting in a **30% increase in social media engagement**.

### MERN Intern, The Uplift Project

Jun 2020 – Aug 2020 | Remote, India

- Contributed to developing **TradeByte**, a Stock Trading game on the **MERN stack**.
- **Improved MongoDB database** and implemented **Google Authentication, Email Alerts, and Stripe Payment Gateway** features, led to **30% improvement in user satisfaction**.

### Deep Learning Intern, Bennett University: Leading India AI

Jun 2020 – Jul 2020 | Greater Noida, India

- Co-developed an **explainable AI web app** for **lung disease classification & quantification** using **GAN**. Worked on **3 different CNN models (ResNet50, VGG19, & Densenet121)** for lung disease classification, comparing their precision, recall, and F1 score, and determined that the **VGG19 model yielded the highest F1 score of 0.98**.

### Web Developer Team Lead, Vadodara StartUp Festival 2020

Jan 2020 – Feb 2020 | Vadodara, India

- **Led a team of 7 developers and designers** and utilized **HTML, CSS, JavaScript, & Bootstrap** to create a **visually appealing & user-friendly website**. Deployed it on **AWS** for **efficient hosting**, received **positive feedback** for its fast & seamless user experience.

### Cyber Security Trainee, TechDefence Labs

May 2019 – Jul 2019 | Ahmedabad, India

- Completed **10+ web penetration tests** using **Kali Linux** and **Burp Suite**.
- Identified and mitigated **20+ vulnerabilities**, including **OTP bypass, SQL injection, CSRF, reverse engineering techniques, & strengthened security measures** for websites.