

# Somen Samanta

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## Career Objective:

Software engineer with a strong foundation in Computer Science, passionate about innovation in AI, Software optimization and systems. Committed to applying skills in development and optimization to impactful tech projects.

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## Education:

**Roorkee College of Engineering**, Veer Madho Singh Bhandari Uttarakhand Technical University, Uttarakhand

- **Bachelor of Technology in Computer Science and Engineering** (July-2021 to Current) **8.1 CGPA (Current)**
  - **Related Courses:** Object-Oriented Programming, Database, Data Structures, Software Engineering, Algorithms
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## Skills:

**Programming Languages:** C, C++, Python, Bash, Web Technology (HTML, CSS, JavaScript), NodeJs

**Frameworks & Technologies:** Django, Tailwind CSS, Bootstrap, Docker, Kubernetes, ReactJS

**Cloud Platforms:** AWS, GCP, Microsoft Azure

**Databases:** SQL, PostgreSQL, MongoDB

**Tools:** Git, CI/CD Pipelines, RESTful APIs

**Operating Systems:** Linux, Windows, macOS

**Certifications:** Crash Course in Python(Google), Data Structures(UC San Diego), OOPs by UC San Diego, Industry Certification by L&T Technologies, Network Defence & Ethical Hacking by EC-Council, Python For Mathematics (Udemy)

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## Experience and Internships:

**Farmicon India Pvt. Ltd. (Startup Incubated at TIDES, IIT-R)**

- **AWS Cloud Administrator Intern (Dec 2023 – Mar 2024)**
  - Managed 20+ EC2 instances and **AWS services (SNS, RDS, S3)** with **99.9% uptime**.
  - **Reduced AWS costs by 15%** through optimization strategies.

**IndoplanetX Space Vault and Research Pvt. Ltd.**

- **Web Developer Intern (Dec 2022 – Sep 2023)**
    - Developed a responsive website using **ReactJS**, improving load times by 30%.
    - Deployed and managed the website on **AWS EC2** and **S3**, ensuring 99.9% uptime.
  - **IT Intern (Apr 2023 – Nov 2023)**
    - Integrated **React** with **AWS Cloud** to optimize system performance.
    - Automated deployments using **CI/CD** tools, **reducing inefficiencies by 20%**.
  - **Research Intern (Aug 2022 - Mar 2023)**
    - Conducted **in-depth research** on satellite communication systems, focusing on optimizing signal transmission and reception for **enhanced reliability** and performance.
    - Analyzed advancements in satellite communication for next-generation systems.
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## Projects:

- **Weather Cube Satellite Code (Internship Project)**
  - Developed a DHT Sensor header file and wrote 100+ lines of Arduino code for wireless sensor data transmission.
  - Achieved 95% reliability in processing data from 5+ onboard sensors.
  - **Tech:** Arduino, C Programming
- **Linux Automation Script Kit**
  - Created 30+ Bash and Python scripts for tasks like disk monitoring, network diagnostics, and info.
  - Improved system administration efficiency by 40%, reducing manual tasks by 50%.
  - **Tech:** Bash, Python, Linux
- **ERP System Development**
  - Built a modular ERP system using Python (Django) with a responsive UI developed in Tailwind CSS.
  - Integrated a remote PostgreSQL server for scalable and secure data management.
  - Implemented key features like inventory tracking, finance management, and role-based access control to streamline business operations.