SOHAM TRIPATHY

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EDUCATION

National Institute of Technology, Andhra Pradesh Aug 2023 – Jun 2027
Bachelor of Technology in Computer Science and Engineering *Current CGPA: 9.56*

- **Relevant Coursework:** Programming & Algorithmic Thinking, Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems, Design & Analysis of Algorithms, Computer Organization & Architecture, Shell Scripting & Unix Programming

SKILLS

- **Languages:** Java, C, C++, Python, TypeScript, SQL
- **Web Development:** HTML5, CSS3, JavaScript, React, Tailwind CSS
- **Backend & APIs:** Django, Django REST Framework, Node.js, Express.js, RESTful API Development
- **Machine Learning:** Supervised, Unsupervised Learning, Reinforcement Learning, Model Evaluation, Scikit-learn, NumPy, Pandas, Matplotlib, Tensorflow, PyTorch
- **Database Systems:** PostgreSQL
- **Developer Tools:** Git, GitHub, Postman, Figma, Linux, Render

PROJECTS

Learning Management System ⓖ
Tools: Python, Django, PostgreSQL, HTML, CSS, JavaScript, Figma, OpenCV

- Developed a web-based quiz platform with weekly quizzes and unique question sets per student.
- Implemented percentile-based evaluation and webcam-based plagiarism detection for integrity.
- Used PostgreSQL for secure result storage and performance trend analysis by faculty.
  Mentor: Dr. Nagesh Bhattu, Assistant Professor and HOD, CSE

Cloud-Based Task Manager with Role-Based Access Control ⓖ
Tools: Node.js, Express.js, PostgreSQL, React, JWT, Docker

- Built a full-stack task manager with login, JWT auth, refresh tokens, and RBAC.
- Developed scalable REST APIs and managed task data with PostgreSQL.
- Dockerized the app for seamless deployment with modular backend architecture.

Scalable API Integration Service for Weather and Geolocation Data ⓖ
Tools: Python, FastAPI, REST APIs, SQLite, OpenWeather & PositionStack APIs

- Created a FastAPI microservice integrating OpenWeather and PositionStack APIs.
- Implemented efficient caching, error handling, and SQLite-based query logging.
- Enabled low-latency, real-time weather and geolocation data access.

CERTIFICATIONS

- ATF 2024: Stage 2 Candidate – AlgoUniversity
- Mastering Data Structures & Algorithms in C/C++ – Udemy (Abdul Bari)
- Basics of Web Development – Microsoft Learning
- Building Transformer-Based NLP Applications – NVIDIA Deep Learning Institute

ACHIEVEMENTS

- **Academic Achievement** *Apr 2023*
  Scored **992/1000** in Intermediate Public Examination, TSBIE.
- **Competition Achievement** *Oct 2023*
  Top **7 percentile** in Algo University Technology Fellowship (ATF) Stage II, excelling in Java and Python DSA challenges.
- **Competition Achievement** *Dec 2024*
  Ranked **1st** among 250+ second-year students in Codeweek, HackerRank (NIT Andhra Pradesh), using C++ and Python.

EXTRACURRICULAR ACTIVITIES

- Executive Member, I&E Cell, NIT Andhra Pradesh — led technical events.
- Campus Ambassador, Blackbox.ai — promoted AI and taught prompt engineering.
- Created visual computing projects for Tech-Fest, NIT Andhra Pradesh.