Ayush Singh Rathore

✉ singhrathoreayush1738@gmail.com in linkedin/ayush leetcode/ayyush/1738 ⌥ github/ayyush1738

Work Experience

- **SRM University**   Mar 2023 - Present
  Campus Automation Student Lead
  – Spearheaded campus automation, resulting in a 95% reduction in task completion time and streamlined University operations.
  – Conceptualized and implemented solutions for Grievance Redressal, Out-pass Booking, and Slot Booking processes, benefitting over 3,000 students.

Projects

- **Health Lens: Healthcare Platform** — React, Fast API, Firebase, Python, Google-AI Studio, ML   *Project Link*
  – Developed lung disease prediction system with 98% accuracy ML model, integrating React, Firebase, and FastAPI.
  – Imposed authentication and data presentation, reducing security incidents by 30%, boosting user engagement by 25%.

- **Athena: P2P Lending Platform** — Solidity, Web3js, Infura-API, Ethereum   *Project Link*
  – Engineered P2P Lending Platform with 99% uptime, reducing default rates by 75% through Credit Score evaluation.
  – Leveraged Web3.0 frameworks to enhance reliability and trust, promoting transparent lending practices.

- **Decentralized-voting-by-bio-metric-authentication** — Solidity, Web3.py, Python, Raspberry-PI   *Project Link*
  – Engineered Voting System with 90% accuracy in bio-metric authentication, ensuring secure processes.
  – Executed blockchain technology in voting to enhance trust and transparency, resulting in a 50% reduction in identity fraud incidents and increasing voter confidence by 40% according to post-election surveys.

- **Solidity Code-Scanner** — Python, Solidity   *Project Link*
  – Developed software tool identifying and rectifying over 25 vulnerabilities in Solidity smart contracts.
  – Enhanced security posture of blockchain applications, implementing secure coding practices, resulting in a 60% decrease in security vulnerabilities identified during code audits.

Technical Skills

- **Programming Languages:** JavaScript, Python, Solidity, SQL, C/C++
- **Backend Development:** Node.js, Express.js, FastAPI, Flask, PostgreSQL, MongoDB, Data Analysis
- **Frameworks:** React, Tailwind CSS, Web3.js, Ethers.js, Web3.py, Ethers.py
- **Tools:** Hardhat, Ethereum, Blockchain, ERC721, Smart Contracts, Remix, Firebase, AWS, Git, Linux, Raspberry Pi, Arduino

Education

- **SRM University, Andhra Pradesh**   Sep 2021 - Jul 2025
  Bachelor of Technology in Computer Science and Engineering
  CGPA: 7.2/10.0
  Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, System Architecture Design, Networking, Database Management, Network Security

Leadership / Extracurricular

- Headed Next Tech Lab, mentoring 100+ students in Blockchain & Web3.0, contributing to a QS awarded student-run community, where i organized 2 national-level & 5+ University-level Hackathons during undergrad.
- Served as a member of the Academic Council at the University for a duration of 1 year, Established the Student Academic Committee, fostering collaboration and boosting student engagement by 40% & redesigned curriculum across 3 schools, ensuring 100% implementation and alignment with industry standards..
- Organized the first National-level Technical & Cultural fest of the University, with footfall over 7000 attendees.