AKHAND PATEL

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Education

M.Tech in Computer Science and Engineering **Aug 2021 - Present**
Indian Institute of Technology Bhubaneswar CGPA:8.14/10.00 *Odisha, India*
Coursework: Cloud Computing. Network Systems and Security. Advanced Algorithms. Software Engineering.
Software Testing and Verification. Digital Forensics. Machine Learning and Data Analytics.

B.Tech in Computer Engineering **September 2016 - August 2020**
Babasaheb Bhimrao Ambedkar University, Lucknow Division: First class *Uttar Pradesh, India*
Coursework: Operating Systems. Compilers. Computer Networks. Algorithms. Theory of Computation. Database
Management Systems, Artificial Intelligence, Web Engineering

Training and Projects

Scalable Pharmaceutical Supply Chain using Blockchain (MTP) *|Dr M.Satpathy* **Ongoing**
- Developed a HyperLedger Fabric based blockchain to manage supplychain in pharamaceutical enterprises.
- Reduced the core blockchain storage size by 90% by using IPFS based Blockchain data storage model.

Similarity Index between documents *|Dr M.Satpathy* **March 2022**
- Developed program to calculate similarity index between text documents, with increased accuracy of 40%.
- Implemented n-gram based plagiarism detection of text documents based on reference corpus.

Invisible Digital Watermarking *| Dr M.Satpathy* **February 2022**
- Formulated DCT domain watermarking technique of digital images with PSNR greater than 90%.
- Achieved invisible watermark image embedding in the digital media formats.
- Increased fault tolerance against various types of attacks by 40% .

Image Storage Service *|Firegram* **June 2021**
- Programmed highly scalable, low cost and high performant one stop solution to store user photos in cloud.
- Implemented Albums Feature to store images in a systemized manner

Personal Cloud Storage Solution *| HOSTER* **May 2021**
- Formalized Directory-Based Storage and Authorisation using G-Auth to facilitate faster login by 50%.
- Engineered using ReactJS , BootStrap on frontend and Firebase as backend.
- Deployed using CI/CD between GitHub and Netlify to improve build time by 25%.

Experience

Indian Institute of Technology Bhubaneswar **Bhubaneswar, India**
Teaching Assistant, Computer Science and Engineering *Aug 2021 - Present*
- Guided 120+ students in programming and data structures and graded problem sets.
- Maintained weekly office hours and doubt-solving sessions for 25+ students.

Centre of Science and Technology **Uttar Pradesh, India**
Technology Intern *July 2019 - August 2019*
- Revamped a productivity add-on for internal systems to accelerate review process by 20%.
- Reviewed 15+ projects and interviewed 30+ applicants to be shortlisted for grants.

Technical Skills

Certifications/Training: Summer training in Android Development
Languages: C, C++, JavaScript,NodeJS,HTML,CSS
Developer Tools: Visual Studio Code, Google Colaboratory
Technologies/Frameworks: Git VCS, Linux, GitHub, ReactJS, Firebase, MongoDB, Hyperledger Fabric

Achievements / Extracurricular

- Student Placement Coordinator M.Tech C.S.E. | IIT Bhubaneshwar 2022-2023
- Solved more than 250 problems on various platforms combined like LeetCode, GFG and others. April 2022
- Technology Advisor for NGO.| *Amicus Homines* . May 2021
- Qualified GATE twice with recent rank 1089 with a percentile greater than 98%. April 2021