VEDANT PIMPLE

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EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, NY   August 2023 - May 2025
Master of Science in Computer Science
Relevant Coursework: Analysis of Algorithms, Software Engineering, DBMS, Artificial Intelligence

Mumbai University - RAIT, Mumbai, India   August 2019 - May 2023
Bachelor of Engineering in Computer Engineering (CGPA: 9.23/10)
Relevant Coursework: Mobile Computing, Internet Programming, Operating Systems, Computer Architecture

EXPERIENCE

Full Stack Software Developer Intern, AjnaLens, Dimension NXG Pvt Ltd (AR/VR Tech) –   January 2022 - March 2022
Mumbai, India
- Collaborated with a cross-functional team to develop a product website, leading to a 20% increase in engagement
- Utilized ReactJS to transform UI, delivering an immersive and involving client-side experience; drove a 40% increase in user engagement, elevating customer satisfaction and driving revenue growth
- Administered efficient database designs and devised RESTful APIs using NodeJS, Express, and MongoDB, resulting in a 30% decreased page load time and improved overall system performance

Full Stack Web Developer Intern, Software Development Group – Mumbai, India   June 2021 - May 2022
- Increased database efficiency by 25% through development of optimized MongoDB database schemas, resulting in enhanced data storage and retrieval
- Engaged with UI/UX designers to execute wireframes, leading to development of 3 user-friendly web interfaces
- Accomplished data validation and error handling, ensuring a smooth UX, and reducing bug reports by 20%

Full Stack Web Developer Intern, Software Development Group – Mumbai, India   June 2020 - April 2021
- Led end-to-end development of 'Paws Hub" pet store web application, supplementing the power of MERN stack. Utilized ReactJS to create a highly engaging user interface, attaining 40% reduction in page load times
- Executed server-side logic using NodeJS and Express, managing HTTP requests and implementing RESTful API

PROJECT EXPERIENCE

Automatic Intrusion Detection System Using Hybrid Deep Learning Models   June 2022 - April 2023
- Executed deep learning models (CNN, RNN, Bi-LSTM) coupled with NSL-KDD datasets to detect and analyze various cyberattacks - DoS, Probe, and R2L; Achieved an accuracy rate of 99%, representing precision in cyberattack detection
- Spearheaded the evaluation of multiple performance metrics for IDS, including precision, recall, and F1-score; identified optimal model configurations resulting in a 22% increase in overall system performance

Student Empowerment Portal (MERN Stack)   August 2021 - April 2022
- Architected and deployed a student-centric web application leveraging MERN Stack, offering career guidance, and a personal profile; achieved a 50% increase in user satisfaction and a 30% decrease in student attrition rate
- Implemented JSON Web Tokens (JWT) to data security and access control, safeguarding sensitive information; reduced potential breaches by 60% and enhanced user trust by ensuring secure authentication

SKILLS
- Programming Languages: Java, JavaScript, C/C++, Python
- Database Management: MySQL, MongoDB, PHP, PostgreSQL, Firebase, DynamoDB, Google Cloud, AWS
- Frameworks/Libraries: NodeJS, ReactJS, AngularJS, Vue, Express, TensorFlow, Scikit-Learn
- Tools: Visual Studio, Git & GitHub, Figma, Android Studio, Adobe XD, Adobe Illustrator

PUBLICATIONS
- Vedant Pimple, "Hybrid Deep Learning Model for Automatic Intrusion Detection System", IEEE International Conference on Data Science and Network Security (ICDNS-2023), KIT, Tripur