ANMOL GARG

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EDUCATION

The Pennsylvania State University   Expected Graduation: May 2025
B.S. Computer Science
Clubs:: Finance Club, Ski & Snowboard Club

Manipal Institute of Technology   Oct 2021 – May 2023
Transferred   *Karnataka, India*
Activities: President of the Computer Science Club, Class Representative 2021-2022 & 2022-2023, Web Dev Head at Project DronAid

SKILLS

Programming skills: Python, HTML, CSS, Bootstrap, JavaScript, MongoDB, React JS, mySQL, Java
General Software & Tools: Github/Git, Adobe Photoshop, CorelDraw, Wordpress

WORK EXPERIENCE

Data Analysis Associate | Penn State HFS   *Jan 2024 - Present*
• *Focused on optimizing resource allocation and identifying key trends for strategic decision-making for dining halls and university provision stores.*

Undergraduate Student Researcher | Penn State   *Nov 2023 - Present*
• Engaged in research in data analysis, AI, and VR technologies.
• Presented Research to Legislators including the Senate and House of Representatives at Pennsylvania State Capitol.

IT Services Specialist | Penn State IT Services   *Nov 2023 - Present*
• Provided support for incidents involving Penn State on-campus technologies and IT Infrastructure utilizing ITIL Practices and tools like ServiceNow
to track, investigate and resolve.

Software Developer Intern | Medilance Healthcare   *June 2022 – Nov 2022*
Chandigarh, India
• Led the development and launch of an in-house Lead Management Solution that processed a total of 500 daily leads,
contributing to 80% of the company's revenue. Along with optimization of access based cross-platform SQL based central company database
• Optimized the company websites to serve faster by streamlining code and web server configurations.
• Oversaw the internship program for the digital technology team, resulting in successful onboarding of 15 interns.

Intern | Hivends InfoSolutions   *June 2021 – Sep 2021*
Mohali, Punjab, India
• Worked with the team of pharmavends.com and implemented front end features on the portal using Javascript and CSS.
• Translated designer mockups into functional front end code for key product pages, with 50% less development time.
• Assisted in the onboarding process by presenting detailed roadmaps to clients.

OTHER EXPERIENCES

Web Subsystem Team Lead | Project Dronaid   *Dec 2021 – May 2023*
Manipal Institute of Technology, India
Dronaid is an university funded project at Manipal Institute of Technology, I was responsible for developing the relevant web technologies for the project.
Major project undertakings included:
• Drone Flight Control Software and API development.
• Technical and Design overhaul of the project website
• Streamlined team operations through the creation of an internal resource planning software, reducing project timelines by ~20%
• Represented the institute in the UAS Challenge 2023 held in Buckminster, United Kingdom.

President, Enigma Technical Society   *Sep 2022 - May 2023*
Manipal Institute of Technology, India
Was unanimously elected as the President of the Enigma and assigned the primary objective of reinstituting the club.
• Started a Bi-annual Workshop series with professors, industry guests as speakers.
• Formalized agreements with student organizations and companies to collaborate on projects and resource sharing.
• Kickstarted numerous projects like manipal eats, drone building workshop programs
• Acted as a consultant to the Institute Director on various technology affairs

Volunteer Web Developer, keepeducatingyourself.org   *March 2020*
Revamped the website design

PUBLICATIONS - RESEARCH PAPER

Layering of Medical Data Using Machine Learning Algorithms - *Springer Nature*
Presented an approach to layering up patient records with use cases of predictive algorithms at International Conference on Applications and Techniques in Information Security (ATIS) 2022.

RESEARCH PROJECTS

NeuroAdaptive VR Therapy: Integrating AI and Biofeedback for Personalized Mental Health Treatments. (Currently Working)
Spatial Cognition Mechanism for Autonomous Robots: Created algorithms for indoor route planning in autonomous mobile robots, leveraging spatial cognition for improved navigation accuracy.
Integrated Data Intelligence System: Developed an automated analysis pipeline for extracting insights from large government datasets, enhancing data intelligence and data driven decision-making capabilities. Project was reviewed by multiple Pennsylvania Legislators.

PROJECTS

Indian 2016 Demonetization Sentiment Analysis using Hadoop : Insight into the views of different people on the demonetization by analyzing the tweets from twitter and classified the tweets as positive or negative.
***AtTracker,* Attendance Register**: Implemented a digital attendance and student registration record keeper with Python Qt 5 GUI and mySQL Database.
JiSS, Judiciary Information System Software using Java, JavaFX, MySQL : A unified system to manage court cases and make data accessible to the lawyers and judges.