Aarya Sharma

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EDUCATION

Trinity College Dublin, Computer Engineering, BAI   05/2021 – 11/2023
                                                                          Dublin, Ireland
- Awarded an Academic Scholarship for exceptional performance by the Vice President and School of Engineering.
- Completed a final year project titled "Implementation of Electric Field Integration Equation for Terrain Profiles Using Forward Scattering Method." Earning First Class Honors (1.1) in recognition of the project's success.

EXPERIENCE

Full Stack Developer Intern, Charzer   08/2020 – 08/2021

- Enhanced user experience, increasing engagement by 20% among 10,000+ users.

Front end Developer Intern, Fae-Bike   05/2019 – 08/2019
- Refined website visibility by 25% through the incorporation of SEO best practices.
- Attained advanced site navigability and user engagement amongst 30,000+ users.

PROJECTS

Final Year Project

- Accelerated the efficiency by 96% compared to existing methods and addressed hidden node problems and security/reliability issues in Cognitive Radio.
- Achieved The proposed methodology, with REM server, potentially paving the way for more reliable CR deployments giving a 40% increased efficiency.

Formula Trinity - Autonomous

- Created better algorithms for Path Planning, Optimal Path Selection, and Collision Avoidance for FS-AI self-driving car competition

Freelancing projects/Coursework Projects

- VisAL – Algorithm Visualizer: Programmed a application that visually represents the functioning of 30+ algorithms, enhancing the learning experience.
- DoomStopper: Introduced a unique system to reduce negative online content consumption by 80%, promoting a healthier digital environment.
- Dronework: Innovated a drone-based smart city concept that increased delivery efficiency by 20% using a decentralized network.
- Assistant Director – Directed several short films, gaining over 24,000 views within a month.
- JERVIS: Developed an intelligent home assistant with a 15m radius using Raspberry Pi Pico and Python, advancing home automation accessibility
- ACME: Collaborated on a healthcare platform that suggests cost-effective medicines using OCR, benefiting 100k+ users.

StarGazer AR

- Designed an AR-based Stargazer app, increasing user engagement through interactive celestial body identification.
- Incorporated real-time data integration, enhancing the app's accuracy and improving user satisfaction.

OTHER EXPERIENCE

- Sage: Brand Ambassador,Victoria's Secret: Sales Consultant,Stanza Living (Full-time): Sales Manager

- **Languages English, Hindi, German, French**

SKILLS

C++, Unity, Blender, OpenGL, Cinema 4D,Scala,GO, AR/VR, SQL, HTML, PHP, CSS, Python, OpenCV, ROS, JavaScript, AWS, Azure, Google Cloud, .NET, PowerShell,, Docker, Dockerfile, C#, Node.js, React, Angular, Ruby, Swift, Kotlin, Haskell, Dart, Flutter, MATLAB, Plotly, Adobe, Figma, Scrum, Agile, Jira, JUnit, Testing, Java, MongoDB, Git, GitFlow.