ARMAAN VERMA

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EDUCATION

The University of Texas at Austin, Austin, TX   August 2024 - May 2028
Sophomore, B.S., Biomedical Engineering concentration in Cellular and Biomolecular Engineering
   Relevant Coursework: *Chemistry 1 (+lab), Calculus 1, Intro to Biomedical Design (+lab), AP Statistics (4), AP Chemistry (4), AP Biology (5)*

EXPERIENCE

The University of Texas at Austin, Austin, TX   October 2024 - Present
Undergraduate Researcher
   ● Spearheaded the development of novel staggered-release hydrogels for mRNA vaccine delivery, aimed at minimizing the need for repeat dosages, under the guidance of Ishaan Duggal in the **Peppas Lab**.
   ● Conducted in-depth analysis of hydrogel crosslinking patterns to optimize vaccine dispersal rates, contributing to advancements in long-term immunization strategies.

The University of Texas at Austin, Austin, TX   August 2024 - Present
Undergraduate Researcher
   ● Presented a two-phase research proposal on artificial keratohyalin granules and their potential in epidermal drug delivery, integrating retinoids and azelaic acid for therapeutic application.
   ● Leading a collaboration with Dr. Cosgriff-Hernandez and Dr. Laura Suggs to transition the research into experimental phases, currently organizing initial funding rounds to support ongoing development.

Metroplex Medical Center, Coppell, TX   June 2023 - July 2023
Job Shadower/Medical Scribe
   ● Shadowed a Primary Care Physician in a **clinical environment.**
   ● Observed **patient-doctor interactions** (within HIPAA regulations).
   ● **Assisted** in daily Medical Assistant/Administration work.
   ● **80 Hours** (2 weeks, full shifts)

Brambles, Toronto, Ontario, Canada   July 2021 - August 2021
Data Science Intern
   ● **Learned** and **implemented** backend **SQL** optimization techniques to **improve server efficiency**.
   ● **Developed** and **designed** a **frontend user interface** with **PowerBi** to track pallet shipments **internationally**, with **GPS accuracy** on over 300 million pallets.
   ● Awarded **The Most Successful Intern** award, 1/5/300.

PROJECTS

Self-employed, Irving, TX   January 2023 - Present
Web developer/Researcher
   ● **Created** a website that focuses on treatments, solutions, lifestyle choices, and diet plans for those suffering Hidradenitis Suppurativa
   ● **Developed** a **community server** that allows for **multi-user interaction**
   ● **Fact-checked** and **tested treatment plans** before being released on the main website

SKILLS

Technical /Computer Skills: *Intermediate **Excel**, Basic **SQL**, Basic **Python**, Advanced **Powerpoint**, Advanced **SEO**, Intermediate **PowerBi**, Basic **CAD**, Basic **Solidworks**, Intermediate **Fusion 360**, Advanced **Excel**, Google Search Console, **Google Analytics**, **Google Trends***
Languages: *Fluent **English**, Fluent **Hindi**, Fluent **Urdu**, Full Working Proficiency **French**, Limited Proficiency **Punjabi***
Certifications: ***Apple Search Ads** Certified, **Google's Introduction to Gen-AI** Certified, **Google's Introduction to Large Language Models** Certified, **Google's Introduction to Responsible AI** Certified, Kaggle's Intro to Programming*