VIGHNESH HEMNANI

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education

Rutgers University, New Brunswick NJ, USA Bachelors of Science in Computer Science and Mathematics | GPA: 3.70/4.00

Mercedes-Benz International School (MBIS), Pune, MH, India International Baccalaureate (IB) Diploma | Total: 39/45 (top 10% in the world)

personal projects

Bar-Beer-Drinker Project, Prin. of Info. & Data Mgt.

Oct '20 - Nov '20

Email

New Brunswick, NJ, U.S

- Developed a web application on a Tomcat localhost server using HTML, CSS and Javascript that shows tabular & graphical insights on a given bar, beer or drinker using queries from a MySQL database
- Accommodated a user-friendly error-prompt when a user to decides to modify (insert/update) the database from the web application allowing the database to be changed dynamically as user deems fit

Research Paper on Laplace Equations, IB DP Extended Essay.

Mar '17 - Jan '18

Pune, MH, India

- Wrote an in-depth 4,000 word Harvard-cited research paper in Mathematics as a part of IB DP
- Analysed the difference between solving second-order differential equations using Laplace Transforms vs. traditional methods, in the context of a displacement model of a parachutist

Diamond Challenge Business Concept Competition: Potentia Fitness App, University of Delaware, United States

Sept '16 - Dec '17

- Participated in a group of four to collaborate and make a business concept a 'gamified' fitness app, Potentia, that offered challenges, 'fuel' points & levels to attract young-adult users
- Collaborated in a group that held regular weekly meetings to discuss and work on the fitness app
- Developed a dynamic wireframe and then a prototype of the fitness app using InVision and Figma
- Selected among 700 applications worldwide to present a pitch to established judges & finally be in the top 5 in the world

job/leadership experiences

Freelance Maths Tutor, Online and Independent

Mar '20 - Current

- Employed word-of-mouth advertising and online posts on Reddit and Discord forums to reach out to high school and college-level students for Maths tutoring of any discipline (Algebra, Calculus, Linear Alg)
- Provided reliable, on-time and online tutoring over Zoom to 8 students ranging from middle to college students on Algebra, Geometry, Calc 1, Calc 2, and Linear Algebra
- All students passed and large majority jumped from a failing/borderline grade to a B+/A by the end of the semester.
- One student rose from having a mediocre grade to being able to show thorough and remarkable mathematical and analytical skills, which resulted in a Lab Research Assistantship position at UofSC

Consultant, Office of Information Technology, New Brunswick, NJ

Aug '19 - Current

- Responsible for the maintenance of the IT labs, gathering hourly statistics, diagnosing and solving network issues, and effectively handling unfamiliar and unusual situations to help patrons with their technological issues (such as issues with Microsoft Office or Adobe Creative Suite)
- · Apply interpersonal skills, such as clear communication, active listening, and problem-solving to develop rapport with patrons and troubleshoot problems with university printing, hardware/software, and SSO services both in person and on call.

Mathematics Teacher, Santulan NGO, Pune, Maharashtra, India

Sept '15 – Jan '18

- Volunteered to be a 10th grade Mathematics teacher for 7 students for an NGO that strives towards the empowerment of children whose parents are from socio-economically marginalized communities
- · Planned and organized lesson plans with questions of adequate difficulty to ensure the students maximize their learning
- · Guided and taught the students a challenging syllabus for two years of two different batches, of which all students in both batches passed with distinction

skills

Programs

MS Office Suite, Google (Suite Business and Analytics), Adobe Creative Suite, Figma, Invision, WordPress,

Coding Languages

C, Java, Python, Maple, HTML & CSS, MySQL, MATLAB, R, Latex, Markdown, JSON

Operating Systems

MacOS, Windows and Linux

Langauges

English, French, Mandarin, Hindi, Gujurati, Marathi, Urdu

courses

Calculus I, II, III, IV, V

Data Structures

Linear Algebra

Discrete Struct. I & II

Computer Architecture

Prin. of Data Mgt.

Design and Analysis of Algo.

Data Mgt. for Data Science

Numerical Analysis