DARIUS MAHJOOB

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EDUCATION

University of Southern California, Viterbi School of Engineering — Los Angeles, CA
Bachelor of Science, Computer Science and Business Administration — May 2027
Minors in Applications of Artificial Intelligence, Jazz Studies — GPA: 3.93/4.0
Honors: Presidential Merit Scholarship, Dean's List, Thematic Option Program, Academic Achievement Award
Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Applied Neural Networks

PROFESSIONAL EXPERIENCE

University of Southern California, Viterbi School of Engineering & Office of Orientation — Los Angeles, CA
Teaching Assistant & Orientation Advisor — March 2024-Present
- Design 14 workshops with several groups of 40+ students and parents to help ease their transition into college
- Lead the ENGR102 class' discussion section and manage 30+ students' assignments & out-of-class activities
- Serve in a guest relations role to create and construct relationships with 3000+ incoming students

Captis Intelligence — Remote, USA
Prompt Engineer Intern — June 2024-August 2024
- Implemented a chatbot to increase query efficiency and accuracy by 25% within the Captis database
- Transformed a pre-trained LLM to generate efficient SQL queries from a dataset of over 5 million prompts
- Produced chatbot marketing and promotional materials in Figma featured on the Captis website

Code Ninjas & XPLeague — Irvine, CA
Coding Instructor & Esports Coach — July 2022-August 2023
- Mentored 300+ students ranging from 7-13 years old through coding fundamentals such as lists, dictionaries, conditional statements, and functions in several languages including Scratch, Microsoft MakeCode, Swift, Lua, and Python
- Co-hosted 5 week-long summer camps, teaching topics ranging from Scratch, 3D-printing, video-editing, and Minecraft modding

Infomagnus LLC — Huntington Beach, CA
Quality Assurance Intern — June 2020-July 2022
- Developed 500+ unit tests in Python to assert programs were behaving correctly, improving runtime by 20%
- Managed relational databases in SQL and gained experience using GitHub, Docker, and Postman

LEADERSHIP AND INVOLVEMENT

Center for Artificial Intelligence in Society (Undergraduate Chapter) — Los Angeles, CA
Project Lead & Machine Learning Researcher — August 2023-Present
- Conduct a research initiative testing encoder models' abilities to detect multimodal Hate-Speech with an 82% F1 score
- Presented the research project to 100+ faculty at 2024 USC ShowCAIS symposium on Artificial Intelligence research

Avenues Consulting Group — Los Angeles, CA
Director of Professional Development — February 2024-Present
- Facilitate client relations for 20+ pro-bono consulting projects including LinkedIn, DoorDash, and PepsiCo
- Design 40+ individualized project proposals to clearly delineate roles of ACG consultants for each semester

Student Symphony Orchestra — Los Angeles, CA
Library Manager & Percussion Representative — August 2023-Present
- Perform as a pianist, violinist, percussionist, and guest conductor for the orchestra throughout 4 concerts
- Transcribe 100+ music-sheet parts of various pieces for students to practice with in preparation for concerts

PROJECTS

Pokémon Desolation, Azure, & Reborn — Remote, USA
Head Developer & Lead Composer — August 2020-Present
- Design and develop several functional Pokémon games using RPGMakerXP and Ruby, incorporating 5000+ custom sprites, 300+ maps, 1600+ events, enemy AI algorithms, and original gameplay mechanics to enhance player experience
- Compose and orchestrate 80+ original musical tracks implemented at various points throughout the games

SKILLS AND INTERESTS

Languages: Farsi (native), Spanish (conversational)
Technical: C++, Python, Java, Ruby, SQL, HTML, TensorFlow, Google Colab, Pandas, Power BI, Microsoft Excel, Git/GitHub
Certifications/Training: Google Ads Certification, PWC Consulting Externship
Interests: Game Development, Music Composition & Film Scoring, Fantasy Football