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 — Los Angeles, CA
Teaching Assistant: ITP 259 - Basics of Artificial Intelligence, ITP 365 - Managing Data in C++ — December 2024-Present
- Provide thorough feedback on assignments and labs to strengthen students' skills C++ data structures
- Mentor students in AI model development, covering data normalization, preprocessing, fine-tuning, and evaluation
- Utilize Python frameworks for data analysis, model development, web application creation, and data scraping

University of Southern California, Office of Orientation — Los Angeles, CA
Orientation Advisor & ENGR102 Freshman Academy Coach — March 2024-December 2024
- Designed workshops for 20 groups of 40+ students and parents to help ease their transition into college
- Served in a guest relations role to create and construct relationships with 3000+ incoming students
- Led the ENGR102 class' discussion section and manage 30+ students' assignments & out-of-class activities

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 featured online for potential customer acquisition

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
- Managed a 5-member research team investigating screen-time data for student mental health to advance digital well-being
- Researched encoder-decoder architectures for detecting hate speech in multimodal content to improve content moderation
- Completed an advanced AI curriculum on classical machine learning and deep neural networks to bolster technical proficiency

Avenues Consulting Group — Los Angeles, CA
President & Director of Client Relations — February 2024-Present
- Direct 50+ consultants across 7 departments to ensure project quality, achieving a 43% increase in client partnerships.
- Led client-facing engagements with 30+ organizations to host semester-long, student-run consulting projects
- Develop data-driven consulting frameworks to reduce client costs by 25% and boost brand visibility

Student Symphony Orchestra — Los Angeles, CA
Library Manager & Percussion Representative — August 2023-Present
- Transcribe 100+ music-sheet parts of various pieces for students to practice with in preparation for concerts
- Perform as a pianist, violinist, percussionist, and guest conductor for the orchestra throughout 5 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, CSS, pandas, TensorFlow, Power BI, Microsoft Excel, Git/GitHub, Docker
Certifications/Training: Google Ads Certification, PWC Consulting Externship, Agile Certified Practitioner
Interests: Game Development, Music Composition & Film Scoring, Fantasy Football, LinkedIn Learning courses