

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 Honors 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: ITP259 - Basics of Artificial Intelligence, ITP365 - Managing Data in C++ December 2024-Present

- Provide thorough feedback on assignments and labs to strengthen students' skills on C++ data structures
- Host office hours on AI model development in TensorFlow, data normalization/preprocessing/fine-tuning/evaluation in Pandas
- Teach 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
- Facilitated the ENGR102 class' discussion section and oversaw 30+ students' assignments & out-of-class activities

Captis Intelligence Remote, USA
Prompt Engineer Intern June 2024-August 2024

- Wrote a Python program to increase a chatbot's ability to comprehend user queries 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 Engineer Intern June 2020-July 2022

- Developed 500+ unit tests in Python to assert programs were behaving correctly, improving runtime by 20%
- Managed relational databases using Postgres and collaborated with team members on 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

- Oversee a 5-member research team investigating screen-time data for student mental health to advance digital well-being
- Research encoder-decoder architectures for detecting hate speech in multimodal content to improve content moderation
- Complete 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 August 2023-Present

- Direct 50+ consultants across 7 departments to ensure project quality, achieving a 43% increase in client partnerships.
- Lead 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