Ari Manjikian

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EDUCATION

Georgia Institute of Technology   **Atlanta, Georgia**
B.S. Applied Physics - 4.0 GPA   *Expected Graduation, May 2028*

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, Dart/Flutter, C, C++, Solidity
Databases: PostgreSQL, MongoDB, Firebase Realtime Database, MySQL
Cloud & DevOps: AWS (S3, EC2), Git, Firebase, Docker
Specialized Skills: RESTful API Development, Machine Learning (NLP, Pytorch), Blockchain (Ethereum, Web3), SEO

EXPERIENCE

ZCreations Jewelry   **Venice, FL**
Full-Stack Engineer   *Oct 2024 – June 2025*
- Achieved over 2,600 monthly impressions through targeted SEO strategies, boosting local search visibility and engagement, resulting in over 700 phone calls, 1200 website visits, 400 requests for directions.
- Designed and achieved a comprehensive business management system, including full invoice tracking, inventory and customer record management, automated email workflows, and effortless estimate generation.
- Built and deployed the entire platform using modern technologies, including Python, React, TypeScript, JavaScript, AWS S3, and PostgreSQL, to securely manage over 500 inventory items and 100+ customer records.

Freelance Project - Restaurant Chain   **Venice, FL**
Python Developer   *June 2024 – Sep 2024*
- Constructed an advertisement hardware system to display synchronized media content on LCD screens, utilizing Raspberry Pi, Python, Docker and MQTT protocol for real-time updates over 20 devices.
- Engineered a dashboard enabling media uploads and device management with AWS S3 and PostgreSQL.
- Architected the hardware and software system to support centralized control of devices.

Armenian Relief and Development Association   **Pasadena, CA**
Web Development/Design Volunteer   *Jun 2023 – Sep 2023*
- Architected and engineered a donation-tracking dashboard for donors to monitor annual contributions exceeding $1,000,000.
- Implemented user authentication, SQL database, email notifications, and image storage, handling over 1100 donations.
- Communicated and collaborated with design professionals, focusing on user experience and interface.

PERSONAL PROJECTS

SaaS - Sentence Clustering   **Venice, FL**
Machine Learning Engineer   *March 2024 – May 2024*
- Developed JavaScript program for sentence embedding and clustering utilizing OpenAI API and TensorFlow Universal Sentence Encoder, achieving 100% cost savings by leveraging open-source models
- Utilized clustering algorithms to group over 5,000 sentences based on contextual similarity.
- Improved accuracy by 15% through problem-solving by applying the elbow method on the WCSS plot and experimenting with different clustering algorithms (K-means, DBSCAN, HAC).
- Integrated clustering functionality in a React SaaS platform, helping content creators organize Q&A sessions.

BuzzPathway   **Venice, FL**
Full-Stack Engineer   *Jan 2024 – Feb 2024*
- Developed a personalized transfer plan generator enabling 500+ students to visualize their transfer pathway based on their academic background and chosen major.
- Automated data collection and application maintenance using web scraping and Vercel cron jobs, utilizing a NoSQL MongoDB database to efficiently store and retrieve course requirements at over 1700 schools.

CERTIFICATES

LearnWeb3 | Web3 Infrastructure, Blockchain Technology, Ethereum Network, Solidity
HarvardX | CS50 Introduction to Computer Science
Google | AI For Everyone