

Ari Manjikian

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Applied Physics - 4.0 GPA

Atlanta, GA

May 2028

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Dart/Flutter, C++, HMTL/CSS

Databases: PostgreSQL, MongoDB, Firebase Realtime Database, MySQL, Prisma, Supabase

Developer Tools: Git, Docker, Google Cloud Platform, AWS(S3, EC2)

Specialized Skills: RESTful API development, Machine Learning (NLP, Pytorch), Blockchain (Solidity), SEO

EXPERIENCE

Full-Stack Engineer

ZCreations Jewelry LLC

Oct 2024 – Present

Venice, FL

- 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, 470 requests for directions.
- Designed and achieved a business management system that included invoice tracking, inventory and customer record management, email workflows and estimate generation, increasing customer satisfaction by 43%.
- 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 over 250 customer records.

Python Developer

Restaurant Chain

June 2024 – Sep 2024

Remote

- 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.

Software Developer Intern

Armenian Relief and Development Association

Jun 2023 – Sep 2023

Pasadena, CA

- Developed 'a donation-tracking dashboard for donors to monitor annual contributions exceeding \$1,000,000, implementing user authentication, SQL database, and email notifications to handle over 1,100 donations.
- Communicated and collaborated with design professionals, focusing on user experience and interface.

PROJECTS

RISC-V Single-Cycle CPU Core | *SystemVerilog, cocotb, Verilator*

Mar 2025 – Jun 2025

- Designed and implemented a fully functional RISC-V single-cycle processor core at the RTL level using SystemVerilog HDL.
- Built a verification framework with cocotb and simulated the design with Verilator to validate instruction execution and overall correctness.

SaaS - Sentence Clustering | *Python, JavaScript, NLP, OpenAI, TensorFlow*

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.