

Shant Manoukian

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EDUCATION

University of Michigan

Bachelor of Science in Engineering, Computer Engineering

Ann Arbor, MI

Aug. 2023 – May 2027

- GPA: 3.49/4.00
- Relevant Coursework: Data Structures and Algorithms, Intro to Embedded Systems, Intro to Computer Organization, Intro to Logic Design, Calculus I-III,
- Professional Memberships: KTP Professional Technology Fraternity, Armenian Students' Cultural Association

EMPLOYMENT

TalentNeuron, Software Engineering Intern

June 2025 – Aug. 2025

Remote

- Developed a large-scale Python pipeline to evaluate the accuracy of TalentNeuron's skill extraction algorithm using 4,000+ job descriptions.
- Integrated the ChatGPT API for skill extraction, implemented fuzzy matching logic, and designed scoring systems to analyze recognition rates.
- Queried TalentNeuron's internal REST APIs to enrich and validate skills using autocomplete-based similarity lookups.
- Produced detailed CSV summaries and contributed to visual reporting of results, identifying strengths and gaps in the algorithm, presenting the results to the Executive Team

The Michigan Daily, Web Developer

Feb. 2025 – Present

Ann Arbor, MI

- Develop and maintain web applications for The Michigan Daily, including websites for special editions and internal newsroom tools, using modern web technologies.
- Utilize React.js, Svelte, SCSS, and Parcel to build front-end experiences. Work with React Native for mobile development.
- Leverage AWS cloud technologies for scalable hosting and deployment of projects.
- Collaborate with editorial, design, and business teams to address their technological needs and propose new initiatives for enhancing The Daily's digital presence.

AccelerateKid, Tech Ed Instructor

Mar. 2021 – Aug. 2023

Wixom, MI

- Taught over 100 elementary and middle school students in courses like Scratch Programming, Lego Robotics, Minecraft Servers, and Roblox Game Design, adapting content for diverse learning styles.
- Led classrooms of up to 20 students, effectively communicating complex programming concepts and maintaining regular parent communication to track progress.
- Developed 3+ custom technology curricula and organized Canvas materials for 3 different courses, improving overall teacher effectiveness and student learning.

RELEVANT PROJECTS

KTP Life App

July 2024 - Aug. 2024

- Contributed to the development of KTP Life, a web app designed for scheduling coffee chats, tracking brother points, and managing events used by 100+ members of a professional technology fraternity.
- Developed the front end using React.js, styling components with Material UI to create a responsive and user-friendly interface. Collaborated with a UX designer in Figma to design and prototype a "KTP Superlatives" feature.

Stock Market Simulator

Oct. 2024

- Designed and implemented an electronic stock exchange simulation in C++ using priority queues and heaps to process and match buy/sell orders efficiently based on trader intent, price, and timestamps.
- Developed algorithms to handle multiple input formats (trade list and pseudorandom), processing orders with median price calculation, trading logs, and trader information summaries.

Four-Function Calculator on DE2-115 FPGA

Nov. 2024 - Dec. 2024

- Designed and implemented a four-function calculator on the DE2-115 FPGA board, applying RTL design principles and Verilog to emulate addition, subtraction, multiplication, and division of 11-bit two's complement integers.
- Developed datapath and control logic components, integrating modules such as adders/subtractors, multiplexers, and registers to ensure accurate computation. Utilized ModelSim for debugging and verification.

SKILLS

Programming Languages: C++, Python, Java, C#, HTML, JavaScript

Frameworks and Tools: React, BeautifulSoup, OpenAI API, Power BI

Version Control and Productivity: Git, Microsoft Office, Google Workspace

Simulation and Hardware Tools: Verilog, ModelSim

Data and Query Tools: SQL, REST APIs, Pandas