

Eli Manning

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TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, HTML, CSS, SQL, R, Dart, C#
- **Software & Tools:** FastAPI, REST, Neo4j/Cypher, LangChain/LangGraph, Unit Testing, Git/GitHub, React, Google Cloud, Linux, VS Code, Fusion 360, SolidWorks, Unity
- **Hardware & Prototyping:** 3D printing, Arduino, Soldering, Wiring Harness Design, Embedded Systems, Power Distribution

EDUCATION

California Baptist University Riverside, CA
Bachelor of Science in Computer Science (ABET Accredited) Expected: April 2028
Minor: Mechanical Engineering
GPA 4.0

WORK EXPERIENCE

CAiMLL (CBU Ai and Machine Learning Lab) Riverside, CA
Software Engineer Intern & Team Lead Oct 2024 – Present

- **Architected modular AI** services on GCP using FastAPI, LangChain, and LangGraph to support RAG, summarization, and agent workflows.
- Built **large-scale NLP pipelines** for summarization and entity extraction across DoD/NavaIX datasets (**10M+ records**).
- Designed Neo4j graph schemas and **Python ETL pipelines** enabling semantic search, analytics, and ontology-driven reasoning.
- Developed **standardized data ingestion tools** (JSON → CSV → Neo4j) to accelerate graph onboard; led weekly Agile demos.

Fortuna Games (Real-Time Poker & Card Games Platform) Remote
Founder & Lead Full-Stack Developer Sep 2025 – Jan 2026

- Architected and prototyped a web/app platform for custom competitions with real-time scoring.
- Designed and implemented multiplayer game logic, authentication, and lobby flows with a focus on **reliability** and low latency.

Chipotle Mexican Grill Kirkland, WA
Kitchen Manager / Crew Sep 2021 – Aug 2025

- Lead and coached **30+ team members** while overseeing service for **1,000+ weekly customers** with **90% satisfaction**.

ENGINEERING / RESEARCH PROJECTS

CBU Motorsports (Formula SAE EV) | Electronics Team Riverside, CA
Electrical Team Member Dec 2026 – Present

- Build EV wiring harnesses using crimping, soldering, and connectorization for reliable power and signals.
- Diagnose electrical faults through continuity testing, system bring-up, and iterative troubleshooting.
- Support motor and controls integration via embedded configuration, testing, and validation.

ACM Software Engineering Team Riverside, CA
Incoming President & Software Engineering Lead June 2025 – Present

- Lead architecture and experimentation for an LLM-based system across multiple student engineering projects.
- Developing a custom smartwatch spanning embedded software, sensors, and hardware integration.

Ontology Engineering for Agentic Reasoning | Naval Postgraduate School Riverside, CA
Undergraduate Researcher / Ontology Engineer June 2025 – Jan 2026

- Built SUMO-based ontologies in SUO-KIF to model naval vessel hierarchies and formal reasoning structures.
- Integrated SigmaKEE, Neo4j, and ETableau to enable automated proof validation and **explainable AI reasoning**.

Lego Mindstorms Robot | Tower of Hanoi Solver Riverside, CA
Project Lead Sep 2024 – Dec 2024

- Programmed Lego Mindstorms robot with Arduino, sensors, lights, and audio to solve **Tower of Hanoi** puzzle.
- Iterated on design, 3D printed parts, coordinated a 4-member team, and achieved a **podium finish**.

VOLUNTEER WORK

Canyon Hills Community Church South Africa, Mexico, Chile, Mississippi
Volunteer 2018 – 2024

- Coordinated mission-trip logistics and led teams in **community-driven service projects**