Abraham Moore Odell

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EDUCATION

Loyola Marymount University   Los Angeles, CA
Masters of Science, Computer Science   May 2025
Bachelor of Science, Computer Science   May 2024
Awards: University Program Scholar, B.S. and M.S. GPA 4.00, Dean's List, Honors Program

SKILLS

Languages: Python, JavaScript, Java, SQL and NoSQL database languages, React/Next.js, HTML, CSS
Tools & Technologies: Git, Visual Studio Code, Agile, Test Driven Development, Software Architecture
Additional Skills: specialties in AI/ML, causal inference, causal reasoning, decision support, and reinforcement learning.

RELEVANT EXPERIENCE

AI Researcher and Software Engineer   Los Angeles, CA
DEVCOM Army Research Lab and Parsons Corporation   August 2023 - June 2025
- Designed and implemented novel artificial intelligence model for decision support, built simulation platform.
- Increased efficiency of simulation environment 40% to run complex AI simulations over 10 million trials.
- Presented research to subject-matter experts at international conference with over 800 expert attendees.
- Collected and translated requirements from non-technical stakeholders, and delivered ahead of schedule.

IT Helpdesk Student Manager   Los Angeles, CA
Loyola Marymount University   September 2021 – May 2024
- Used three proprietary software systems to manage sensitive student and faculty data for over 7000 people.
- Trained five student workers, created their schedules, and managed absences.
- Diagnosed and resolved networking, software, and hardware issues for faculty and students.
- Deployed new technologies and software upgrades, troubleshooting post-installation issues.

PROJECTS and PAPERS   2023 - 2025

When to Observe or Act?
Interpretable and Causal Recommendations in Time-Sensitive Dilemmas
- Constructed a new algorithm for causally supported decision making in time limited decision dilemmas.
- Presented a published paper and poster at the Human Computer Interaction International 2024 conference to over 800 in-person participants.

LINK: Los Angeles Fires Disaster Victim Resources Site
- Gathered requirements, managed product/project for team of 5 contributors with Agile methodology.
- Wrote next/react typescript front end and Supabase backend securely hosting over 400 resources, prioritizing usability and availability.

Briefcase: AI Case Document Review Tool
- Built "document chat" feature for Loyola Project for the Innocent allowing lawyers to interact with case documents, asking questions in plain-language by utilizing natural language processing (NLP).

Synthergy: LLM Powered Social Deduction Game
- Utilized Large Language Models (LLMs) to create non-player character agents in game environments.
- Simulated human-like reasoning and decision making processes and evaluated LLM reasoning.