

# Maxim Podgore

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## EDUCATION

### University of California San Diego - 3.82 GPA

Expected March 2026

*Bachelor of Science (B.S) in Computer Science*

## RELEVANT WORK EXPERIENCE

### Lead Machine Learning Engineer

January 2024 - Present

*UCSD Information Technology Services*

- Developed an AI contract review agent leveraging LiteLLM, LLaMA, and Qwen-Embedding for prompt tuning via user feedback. The agent uses a novel Inverse Reinforcement Learning (IRL) pipeline to suggest edits to legal documents and learn from user feedback, driving a 10% increase in contract settlements per month.
- Led a team of 4 student engineers to design the continual-learning aspect of Contract Reviewer after reviewing goals with stakeholders, resulting in a contract reviewer system that increased long-term lawyer satisfaction by 50%

### Machine Learning Engineer Intern

July 2025 - September 2025

*SingularityNET*

- Resolved knowledge conflicts in a Graph RAG system by integrating timestamps and confidence-based sampling into Neo4j-based graph construction, improving consistency and reliability of retrieved information by 30%
- Refactored a cutting-edge benchmark to extend to graph-RAG systems using qwikidata and pandas, testing knowledge recall and ripple effects caused by introducing counterfactual knowledge triplets to the system

### Lead Full Stack Engineer

June 2025 - Present

*Groundwork Books*

- Led the production of an e-commerce site with Next.js, Tailwind and Firebase Auth for user login, integrating Square for live inventory, cart, hosted checkout, and order tracking across 4,000+ SKUs, hosted on Vercel.
- Implemented Redis-backed caching with component-scoped keys and batched inventory calls, and integrated Pinecone semantic search, reducing Square API pressure to obtain sub-200 ms query latency and 90% decrease

### Artificial Intelligence Researcher

May 2024 - May 2025

*Stanford Novel Computing System's Lab*

- Built a C++ static analysis tool for the dReal SMT solver to address floating-point soundness issues, implementing a graph-based LLVM AST solver to validate rounding mode constraints, which detected 200+ problematic lines.

## PROJECTS

### AI-powered Course Planner | *React, Vite, Unicorn, FastAPI, Chroma, Selenium, LiteLLM, TailwindCSS*

- Designed and implemented a high-performance Unicorn + FastAPI server hosting a custom RAG endpoint via LiteLLM and a Chroma vector store, achieving 60% lower latency than standard RAG stacks.
- Developed a RAG pipeline to target requirements and rank courses by fit+rating, reducing planning time by 35%.

### RedShift LLM Jailbreak | *Python, PyTorch, CUDA, FastChat, Transformers, HuggingFace*

- Extended the Distract LLMs for Automatic Jailbreak Attack paper by integrating chain-of-thought prompting and FastChat model support, expanding the attack space and increasing coverage by 67%.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, C++, JavaScript/TypeScript, HTML, CSS, SQL

**Libraries & Frameworks:** Tensorflow, PyTorch, React.js, Next.js, Node.js, Express.js, Tailwind, FastAPI,

HuggingFace, OpenCL, Vite, Puppeteer, Jest, Flutter, SciKit, FastChat, Pandas, NumPy, tqdm, Husky, Wandb

**Tools & Technologies:** Git, Bash, Postman, Docker, AWS (EC2, S3, Elasticache, Lambda), Lucidchart, Atlassian Suite (Jira, Confluence), Redis, Grafana, Figma, Pinecone, Upstash, Neo4j, MySQL, Azure, LiteLLM, SAP HANA

## WORK EXPERIENCE

### Mobile Development Intern

July 2023 - December 2023

*UCSD Information Technology Services*

- Developed the UCSD mobile app and fixed 3+ key issues in AWS Lambda regarding parking data endpoints.

### Bioinformatics Researcher

January 2023 - May 2024

*UCSD School of Medicine, Dr. Allen Ryan's Lab*

- Utilized various gene analysis tools to help find 2 new key regulators for immune response to Otitis Media