Jack Lille Yerington

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EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor's in Computer Science & Spanish, Minor in Global Media Studies — *Expected Graduation: May 2026*
- GPA: 3.62
- Awards/Honors: University Honors
- Relevant Coursework: Programming Languages, Computer Vision, Web Systems, Linear Algebra, Theory of Computation, Computer Organization and Hardware, Data Structures and Algorithms, Discrete Mathematics, Intro to Data Science

Poly Prep Country Day School — Brooklyn, NY
High School Diploma — *September 2018 – June 2022*
- GPA: 3.9
- Awards/Honors: Junior Spanish Linguist Award, Senior Spanish Linguist Award, Cum Laude Society

EXPERIENCE

MOVE Fellow — August 2025 – Present
Handshake AI — *Remote*
- Currently evaluating AI-generated content against comprehensive quality rubrics for a leading AI lab, conducting systematic assessments to support high-impact research initiatives
- Working with cross-functional teams to give structured feedback and contribute to responsible AI development practices

Data Science/AI Intern — June 2025 – August 2025
AION Biosystems — *New York, NY*
- Designed an end-to-end Python data engineering pipeline to process patient PDFs with Excel metadata, automating file operations and improving document traceability for clinical operations
- Engineered an ML-based table extraction system using NLP to parse medical documents and implemented a HIPAA compliant PHI redaction system using regex and spaCy NER models, enabling secure data sharing

Media Asset Management Fellow — September 2024 – January 2025
University of Michigan — *Ann Arbor, MI*
- Automated media asset de-duplication and organization through custom Python scripts, processing verified media datasets and optimizing data accuracy while enhancing team accessibility to critical resources
- Optimized metadata management for large-scale media archives, implementing structured data schemas to ensure accurate and efficient data retrieval across distributed systems

PROJECTS

Match Cut | *Python, Flask, TensorFlow, Google Drive API, scikit-learn* — Fall 2025
- Developed a web application using Flask and TensorFlow with ResNet50 models for image similarity matching across film datasets, utilizing feature extraction, cosine similarity calculations, and threshold filtering
- Implemented dual data management with local processing and Google Drive API integration, building responsive drag-and-drop interface using scikit-learn and PIL/OpenCV for sub-second queries
- Engineered scalable architecture for Heroku and Railway platforms, incorporating efficient memory management, pre-computed feature vectors, and automated indexing for large-scale collections

PeteCode | *Python, TypeScript, React, Django, BAML (BoundaryML), GroqCloud, ElevenLabs* — Fall 2024
- Developed an interactive web tool using React and Django that utilizes complex LLMs to solve LeetCode problems, providing in-depth explanations through a familiar voice interface (e.g., Peter Griffin) for enhanced learning
- Integrated SupaBase for database management and utilized GroqCloud with BAML on a llama3-70b-8192 model for optimized NLP and LLMs to deliver accurate, context-rich problem explanations
- Leveraged ElevenLabs through the FastAPI framework to train voice models, enabling auditory learners to benefit from detailed voice-based problem walkthroughs

Instagram Client-Side Dynamic Site Generator | *Python, Flask, JavaScript, React, SQL, AWS* — Fall 2024
- Developed a Python-based Instagram clone deployed to an AWS EC2 instance with client-side dynamic pages using React and a RESTful API built with Flask, enabling rich interactive features without page reloads
- Refactored server-side code into a REST API to facilitate asynchronous data retrieval and manipulation via AJAX calls
- Implemented advanced features such as infinite scrolling, real-time updates for likes and comments, and double-click-to-like functionality

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, Rust, JavaScript, TypeScript, SQL, PostgreSQL, BAML
Web Technologies: HTML/CSS, React, Django, Flask, Node.js, FastAPI, PIL/OpenCV, SupaBase
Data Science & AI: PyTorch, TensorFlow, pandas, NumPy, Matplotlib, scikit-learn, spaCy
Cloud & DevOps: AWS EC2, Git, Docker, Shell Scripting
Tools: VS Code, IntelliJ, Figma, Xcode, GroqCloud, ElevenLabs