SHOTA GEN

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EDUCATION

University of Michigan   **Ann Arbor, MI**
Bachelor of Science in Computer Science   *Expected December 2026*
- **GPA:** 3.73/4.00
- **Courses:** Data Structures & Algorithms, Web Systems, Operating Systems, Database Management Systems, Mobile App Development, ML, Theory of Computation, Computer Organization, Linear Algebra, Stats & Data Analysis

EXPERIENCE

Pursuit   **Ann Arbor, MI**
Software Engineering Intern   *May 2025 – August 2025*
- Spearheaded the internal LLM evaluation platform (0→1) with LangSmith, enabling standardized, reproducible benchmarks and A/B tests across providers/models via YAML configs, custom evaluators, and Dockerized, one-command runs, **cut evaluation time by 90% (6–8h → <10m)** with 400+ fully traced experiments to date.
- Launched evaluation suites for crawler contact extraction, contact employment verification, and document classification with human-readable reasoning + granular metrics to pinpoint misses and drive targeted prompt fixes, **accelerated prompt iteration by 3x**.
- Built a platform that validates contacts' current employment status via a 3-LLM chained analysis enriched with Serper signals, raising **accuracy from 72% → 91% (68% error-rate reduction)** across **7.4M contacts**; delivered as a NestJS/TypeScript microservice backed by MongoDB/Typegoose, GraphQL, AWS SQS batching, and API-key guards.
- Operationalized LangSmith org-wide, established a robust dataset lifecycle (create/reuse/splits), prompt management and versioning, config-driven model/provider switchability, and end-to-end LLM traceability for **100% of runs**, tracking costs, latency, and response quality.

Rakmy   **Shibuya, Japan**
Software Engineering Intern   *July 2024 – September 2024*
- Built AI-assisted image data extraction with Anthropic API; **reduced manual entry by 95%**, achieved >**90% extraction accuracy**, and cut operational costs by an estimated **$90,000 annually**.
- Shipped two data-wrangling APIs with custom validation to AWS RDS and deployed an image-extraction API on AWS Lambda; wrote implementation docs and test plans.
- Designed a Slack-integrated chatbot for company-wide use that facilitates Claude prompting and thread summarization, enhancing communication efficiency across teams.

Rutilea   **Kyoto, Japan**
Project Manager Intern   *April 2022*
- Spearheaded the end-to-end development of 'SmartBot,' an AI-powered outsourcing service, leading a team of 2 to integrate a custom Slack chatbot with the Google Sheets API, which **cut service delivery time by 40%**.
- Managed the project's lifecycle using Agile methodologies and presented the business case to the CEO, positioning 'SmartBot' as a viable new service line to drive company revenue.

PROJECTS

Search Engine | *(Python, PyTorch, Scikit-Learn)*
- Built a scalable search engine with a user interface that returns search results similar to Google or Bing.
- Created a segmented inverted index of web pages using a pipeline of MapReduce programs.

MapReduce | *(Python)*
- Designed and implemented a Python-based MapReduce framework inspired by Google's architecture, coordinating distributed map/reduce tasks across multiple worker nodes.
- Engineered fault-tolerant communication, task scheduling, and recovery mechanisms using TCP/UDP networking and heartbeat monitoring.
- Optimized parallel data processing with efficient partitioning and merging strategies, achieving scalable and reliable job execution.

Instagram Clone | *(React, JS, Python, SQLite, HTML, CSS, AWS)*
- Created responsive interfaces using React to implement authentication, post interactions, and personalized user accounts
- Applied Flask Python frameworks to develop REST APIs and route requests, and processed them by generating dynamic data from SQLite Database.
- Hosted the website using AWS EC2, leveraging Gunicorn and Ngnix services to deploy a live version of the web app.

SKILLS

Programming Languages: Python, TypeScript/JavaScript, HTML, CSS, C++
LLM/ML: LangSmith, LangChain, Azure OpenAI, Vertex/Gemini, PyTorch, scikit-learn
Backend/Infra: NestJS, SQL, Flask, MongoDB, SQLite, REST APIs, httpx (async), Pydantic, Typer
Cloud/DevOps: Docker, AWS (Lambda, RDS, SQS, CloudWatch), Git/GitHub, Linux
Interests: Guitar, Games, Rec Sports, Gym