

SHOTAGEN

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Ann Arbor, MI

Expected Graduation: December 2026

- **GPA:** 3.73/4.00

- **Courses:** Data Structures & Algorithms, Operating Systems, Web Systems, Database Management Systems, Mobile App Development, Machine Learning, Theoretical Computer Science, Computer Organization, Linear Algebra

SKILLS

Programming Languages: Python, C++, Swift, TypeScript, JavaScript, HTML, CSS

LLM/ML: Cursor, LangSmith, LangChain, Azure OpenAI, Vertex/Gemini, PyTorch, Numpy, Pandas

Backend/Infra: NestJS, SQL, Flask, SwiftUI, MapKit, MongoDB, REST APIs, httpx (async), Pydantic, Typer

Cloud/DevOps: Docker, AWS (Lambda, RDS, SQS, CloudWatch, EC2), Git, Linux, XCode

EXPERIENCE

Pursuit

Ann Arbor, MI

Software Engineering Intern (Engineer #1)

May 2025 – August 2025

- Architected a LLM evaluation platform using **LangSmith** and **Docker**, reducing benchmarking time by **90%** (8 hours to 10 minutes) for 400+ experimental runs.
- Engineered a 3-LLM chained analysis microservice (NestJS/TypeScript) that increased contact verification accuracy from **72% to 91%** across 7.4M records.
- Developed automated evaluation suites for crawler data extraction, contact verification, and document classification, accelerating prompt iteration cycles by **3x** through granular error analysis.
- Operationalized company-wide LLM traceability, implementing prompt versioning and configuration-driven model switching to track cost and latency for 100% of production runs.

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

StudyConnect | (Swift, SwiftUI, MapKit, ARKit, CoreLocation, OAuth, PostgreSQL)

- Directed a 7-person team as Product Manager through Agile sprints to deliver a high-performance iOS app featuring a PostgreSQL backend, AR-guided navigation, and LLM-driven tool-calling for seamless Google Calendar integration, streamlining real-time peer discovery and study session management.

Thread Library | (C++, Multi-threading, Context Management, Unix)

- Implemented a kernel C++ thread library on Unix, handling CPU booting, thread management, management of 50+ CPUs, interrupts, atomicity, and FIFO scheduling order. Designed spin-locks, mutexes, conditional variables utilizing advanced Unix context management.

MapReduce Library | (Python, Distributed Systems)

- Created a Hadoop-like MapReduce Distributed System to process large quantities of data on clusters communicating through TCP/IP. Implemented a Manager-Worker model using OS synchronization and networking sockets for task distribution and fault-tolerance.