

# Michael Yi

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## EDUCATION

### Georgia Institute of Technology

B.S. in Computer Science

May 2026

Atlanta, GA

- **GPA:** 4.0
- **Concentrations:** Artificial Intelligence & Information Internetworks
- **Courses:** Data Structures & Algorithms, Object-Oriented Programming, Objects & Design, Discrete Math, Linear Algebra

## EXPERIENCE

### Ardent Labs

Jun 2023 - Aug 2023

Software Engineer Intern

Irvine, CA

- Spearheaded database migration from RethinkDB to PostgreSQL under GraphQL microservices with 100+ services.
- Wrote SQL and JavaScript migration scripts to inject 400k+ JSON documents pulled from AWS EC2 snapshots.
- Refactored and wrote documentation for 4 repositories and 450k+ lines of code.
- Onboarded incoming intern by providing guidance on best practices, documentation, and DevOps workflows.

### MegaEvolution

Oct 2022 - Jan 2023

Software Engineer Intern

Remote

- Reinforced financial infrastructure of Web3 marketing platform through integration of PayPal and Venmo transactions.
- Implemented JavaScript payment authorization algorithm and verified \$2.5k in transactions for 250+ users.

### USC INK Research Lab

Jun 2022 - Jul 2022

Research Intern

Los Angeles, CA

- Enhanced commonsense reasoning models coupling NLP and vision to generate captions for images using PyTorch.
- Resolved JSON dataset conversion limitations by using Python to process 700k+ images and 2.9 million text samples.

## PROJECTS

### 1st Place at HackGT X Hackathon - [Devpost](#), [Github](#)

Oct 2023

- Created HIPAA-compliant platform that converts physical health records to encrypted electronic records.
- Implemented microservices for a REST API built with Java and Spring Boot and managed with Docker and Kubernetes.
- Applied AES-256 encryption to secure healthcare data in decentralized PostgreSQL databases.
- Utilized Tesseract and GPT-3.5 to apply OCR processing on physical records uploaded through React/Next.js.

### Cinema Blog - [Live Site](#), [Github](#)

Aug 2023 - Present

- Launched a personal blog for publishing film essays and an admin platform using React/Next.js and Tailwind.
- Integrated AWS S3 bucket with REST API built with Spring Boot and PostgreSQL to store essays and their images.
- Secured API endpoints with JSON Web Tokens and user roles administered with Spring Security.
- Established Jenkins cluster with AWS EC2 instances to automate Maven builds and JUnit unit/integration tests.

### health{hacks} Hackathon Platform - [Live Site](#), [Github](#)

Jan - Jun 2023

- Deployed hackathon platform featuring participant registration, team dashboards, and judge scoring forms.
- Served 1k+ participants and oversaw \$5k+ in fee payments through Stripe integration with React/Next.js.
- Managed participant information using GraphQL API built with Node.js, Express, PostgreSQL, MongoDB, and Docker.

## SKILLS

- **Languages:** Java, JavaScript, TypeScript, HTML, CSS, Python, SQL, GraphQL, C++
- **Technologies:** Spring, PostgreSQL, React, React Native, Next.js, MongoDB, Express
- **Misc:** Docker, AWS, Git, Maven, Node.js, Linux, JUnit, Jenkins, Tailwind, Kubernetes, Android Studio

## LEADERSHIP

### health{hacks}

Apr 2022 - Jun 2023

Executive Director

- Organized healthcare hackathons across the Bay Area and Southern California, mobilizing 1k+ participants, 220k+ in social media reach, \$60k+ in sponsorship funding, and administering \$50k+ in prizes.
- Led a 15-member team and demonstrated effective leadership by leading sponsorship acquisition, marketing efforts, and logistical management to launch Orange County's first healthcare hackathon.