Michael Yi

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EDUCATION

Georgia Institute of Technology - *B.S. in Computer Science* **May 2026**
- **GPA:** 4.0
- **Concentrations:** Artificial Intelligence & Information Internetworks
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Objects & Design, Discrete Math, Linear Algebra

EXPERIENCE

Ardent Labs - *Software Engineer Intern* **Jun 2023 - Aug 2023**
- Spearheaded production database migration from RethinkDB to PostgreSQL under a microservices architecture consisting of 100+ services.
- Optimized backend overhaul by writing migration scripts in SQL and JavaScript to inject AWS EC2 backups using CSV for 400k+ JSON data documents.
- Augmented codebase readability by refactoring and writing documentation for 4 repositories and 450k+ lines of code.
- Onboarded incoming intern by providing guidance on best practices, documentation, and DevOps and Agile workflows.

MegaEvolution - *Software Engineer Intern* *Oct 2022 - Jan 2023*
- Reinforced financial infrastructure of Web3 marketing platform through integration of credit card and cryptocurrency transactions with PayPal and Venmo.
- Applied JavaScript transaction authorization algorithm that verifies transaction data for $2k in payments and 200+ users.

USC INK Research Lab - *Research Intern* **Jun 2022 - Jul 2022**
- Enhanced generative commonsense reasoning models by coupling NLP and vision in Python and PyTorch to generate sentences given image and keyword input.
- Identified and solved data processing limitations using Python algorithms compatible with JSON datasets consisting of 700k+ images and 2.9 million text samples.

PROJECTS

ScribeAI - *1st Place at HackGT X* **Oct 2023**
- Created HIPAA-compliant, decentralized platform that converts physical health documents to encrypted electronic records.
- Implemented microservices architecture for a REST API built with Java and Spring Boot and maintained with Docker and Kubernetes.
- Applied AES-256 encryption algorithm to secure healthcare data in distributed PostgreSQL databases.
- Utilized Tesseract and GPT-3.5 models to apply OCR and text formatting techniques on physical records uploaded through React client.
- Acclaimed as 1st Place Winner at HackGT X, the most prestigious hackathon in the South with 1.5k+ participants.

AutoBill: Invoicing Solutions **Jun - Sep 2023**
- Developed invoice generation software that interprets spreadsheets of company sales data as freelance work for a logistics corporation.
- Integrated AWS S3 bucket with REST API built with Spring Boot and PostgreSQL to enable seamless storage of sales data.
- Streamlined feedback time by 600% using React and JavaMail to send invoices in batches.

HealthRelay **Nov 2021 - Nov 2022**
- Created radiology informatics mobile application using React Native that automates medical order transmission.
- Wrote GraphQL API using Node.js, Express, and PostgreSQL to relay encrypted healthcare data to ordering physicians.

SKILLS

- **Languages:** Java, JavaScript, HTML, CSS, Python, C++, SQL
- **Technologies:** Spring, PostgreSQL, React, MongoDB, Node.js, Express, React Native, GraphQL
- **Misc:** Docker, Kubernetes, AWS, Jenkins, JUnit, Agile, Maven, JSON

LEADERSHIP

health{hacks} - *Executive Director* **Apr 2022 - Jun 2023**
- Mobilized 1k+ participants, 220k+ in social media reach, $60k+ in sponsorship funding, and administered $50k+ in prizes by organizing healthcare hackathons across Stanford University and Orange County.
- Led a 15-member team and demonstrated effective leadership by spearheading sponsorship acquisition, marketing efforts, and logistical management to launch Orange County's first healthcare hackathon.
- Deployed hackathon platform using React featuring participant registration, team dashboards, and fee payment with Stripe.
- Stored participant information using a GraphQL API built with Node.js, Express, PostgreSQL, MongoDB, and Docker.