Michael Yi

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EDUCATION

Georgia Institute of Technology   **Atlanta, GA**

B.S. in Computer Science | Concentrations in Intelligence & Information Internetworks   *2023 - 2026*

- **Relevant Coursework:** Object-Oriented Programming, Discrete Math, Linear Algebra, Integral Calculus, Differential Calculus, Intro to Computing

EXPERIENCE

Ardent Labs   **Irvine, CA**

Software Engineer Intern   *Jun 2023 - Aug 2023*

- **Augmented codebase readability and optimized UX** by refactoring legacy code and writing documentation for API architectures and student/instructor portals deployed for 1k+ users and 100+ courses.
- **Restructured backend services** to efficiently migrate production databases from RethinkDB to PostgreSQL.

MegaEvolution   **Remote**

Software Engineer Intern   *Oct 2022 - Jan 2023*

- **Reinforced backend financial services** of Web3 marketing platform by incorporating credit card and cryptocurrency transactions with PayPal and Venmo integration using JavaScript and Node.js.
- **Pioneered transaction authorization algorithm** that verifies transaction data serving 200+ content creators.

USC INK Research Lab   **Los Angeles, CA**

Research Intern   *Jun 2022 - Jul 2022*

- **Researched and enhanced generative commonsense reasoning AI models** by combining natural language processing and computer vision to generate coherent English sentences when given image and keyword input using Python and PyTorch.
- **Identified and solved data processing limitation** by writing Python algorithms compatible with the VL-T5 model dataset and lab datasets consisting of 700k+ images and 2.9 million text samples.

EXTRACURRICULARS

health{hacks}   **Stanford, CA**

Executive Director & Software Engineer   *Apr 2022 - Jun 2023*

- **Amassed 1k+ participants, 220k+ in social media reach, $60k+ in corporate sponsorships, and distributed $50k+ in prizes** by organizing healthcare hackathons @ Stanford University.
- **Expanded organization engineering and brand** by launching joinhealthhacks.com using React, PostgreSQL, MongoDB, Express, GraphQL.
- **Optimized response time by 60% and oversaw $1k+ in transactions** by implementing user authentication, participant dashboards, Stripe integration within health{hacks} website.

PROJECTS

AutoBill: Invoicing Solutions Launched invoice generation software as freelance work for logistics corporation, streamlining feedback time by 600%. Constructed API with Spring Boot, JPA/Hibernate, PostgreSQL paired with React to interpret company logistics data.

HealthRelay Created HIPAA-compliant radiology informatics software using React, PostgreSQL, Express, GraphQL that automates medical order transmission between radiologists and ordering physicians; reduced order transmission time by 20% as reflected by beta-testing with Kaiser Permenante radiologists.

RetinaOCT Developed AI model that detects retinal abnormalities from retinal imaging using CNN's built with Python and Tensorflow. Achieved 90% model accuracy and integrated model with ophthalmologist dashboards using React, PostgreSQL, Express, GraphQL.

SKILLS

Programming Languages: Java, JavaScript, SQL, C++, Python, HTML/CSS
Technologies: Spring Boot, React, JPA/Hibernate, PostgreSQL, MongoDB, Node.js, Express, GraphQL, Tensorflow
Computer: IntelliJ, VS Code, Jira, Docker, Figma | **Misc:** Agile, Git, REST APIs, Machine Learning