Michael Yi

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EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
Bachelor of Science in Computer Science | Concentrations in Intelligence & Information Internetworks   *2023 - 2026*
- **Relevant Coursework:** Object-Oriented Programming, Discrete Math, Linear Algebra

EXPERIENCE

Ardent Labs   **Irvine, CA**
Software Engineer Intern   *Jun 2023 - Present*
- **Increased codebase readability and improved user experience** by refactoring legacy code and writing documentation for user authentication APIs and student/instructor portals used by 1k+ users and 100+ courses.
- **Optimized backend services and wrote Node.js scripts** to efficiently migrate databases from RethinkDB to PostgreSQL on a Node.js server built on Express, TypeORM, and GraphQL.

MegaEvolution   **Remote**
Software Engineer Intern   *Oct 2022 - Jan 2023*
- **Expanded backend financial services** of Web3 marketing platform by integrating credit card/cryptocurrency transactions with PayPal/Venmo integration with React.js.
- **Wrote payment authorization algorithm** that verifies and approves transaction data using Node.js.

USC INK Research Lab   **Los Angeles, CA**
Research Intern   *Jun 2022 - Jul 2022*
- **Researched & enhanced generative commonsense reasoning AI models** by combining natural language processing & computer vision to create coherent English sentences when given image & keyword input using Python & PyTorch.
- **Identified and solved data processing limitation** by writing Python algorithms compatible with the VL-T5 model dataset and datasets compiled by the lab.

EXTRACURRICULARS

health{hacks}   **Stanford, CA**
Executive Director & Software Engineer   *Apr 2022 - Jun 2023*
- **Amassed 1k+ participants, 220k+ in social media reach, raised $60k+ in corporate sponsorships, distributed $50k+ in prizes** by organizing healthcare hackathons @ Stanford University.
- **Expanded organization engineering & brand** by launching health{hacks} website, joinhealthhacks.com, using Next.js, PostgreSQL, MongoDB, Express.js, & GraphQL.
- **Decreased response time by 60% & oversaw $1k+ in transaction** by implementing user authentication, participant dashboards, & Stripe integration.

PROJECTS

HealthRelay Created HIPAA-compliant radiology informatics mobile application using React Native, PostgreSQL, & GraphQL that efficiently transmits medical orders between radiologists & ordering physicians.

RetinaOCT Researched & developed AI model that detects retinal abnormalities from optical coherence tomography imaging trained using convolutional neural networks built on Python & Tensorflow. Achieved 90% model accuracy & implemented model into mobile application w/patient & ophthalmologist dashboards using React Native, Tensorflow.js, PostgreSQL, & GraphQL.

CarCam Built mobile application replicating advanced dashcam features w/React Native. Developed algorithm for vehicle speedometer feature using mobile device coordinates.

SKILLS

Programming Languages: JavaScript, Java, C++, Python, SQL, HTML, CSS
Frameworks/Technologies: React.js, Express.js, Tensorflow, PostgreSQL, MongoDB, GraphQL
Computer: Visual Studio Code, Vim, Figma, Jira, GitHub | **Misc:** Machine Learning, Agile Software Development, Git, REST APIs