Michael Yi

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EDUCATION

Georgia Institute of Technology   2023 - 2027
Bachelor of Science in Computer Science | Concentration in Intelligence & Information Internetworks

Portola High School   2019 - 2023
High School Diploma | GPA: 4.44 | Summa Cum Laude

- **SAT:** 1530 (740 RW | 790 M)
- **Relevant Coursework:** AP Calculus BC (5), AP Computer Science A (5), AP Computer Science Principles (5), AP Physics 1 (4), AP Physics C: Mechanics (4), AP Physics C: Electricity & Magnetism (5), AP Statistics (5)
- **Data Structures/Algorithms & Competitive Programming:** USA Computing Olympiad Silver, American Computer Science League Int'l Finalist

EXPERIENCE

health{hacks}   Apr 2022 - Jun 2023
Executive Director   *Stanford, CA*

- **Amassed 1k+ participants, 220k+ in social media reach, raised $60k+ in corporate sponsorships, distributed $50k+ in prizes** by organizing 4 healthcare hackathons at Stanford University.
- **Expanded organization engineering & brand** by launching health{hacks} website, joinhealthhacks.com, using React.js, MongoDB, Prisma, PostgreSQL, & GraphQL.
- **Implemented user authentication, custom participant dashbaords, and Stripe fee payment** using NextAuth & Stripe integration.
- **Prototyped and implemented UI/UX & front-end designs** using TailwindCSS, Figma, and Adobe Illustrator.

MegaEvolution   Oct 2022 - Jan 2023
Software Engineering Intern   *St. Louis, MO*

- **Developed back-end financial transaction functions of online marketing platform** using PayPal/Venmo integration with React.js & cryptocurrency transactions.
- **Wrote payment authorization algorithm** & constructed backend server w/Node.js & MySQL.

USC Intelligence and Knowledge Discovery Research Lab   Jun 2022 - Jul 2022
Research Intern   *Los Angeles, CA*

- **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 data processing limitation & wrote solution algorithm** compatible w/20 million data samples.

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 using React Native, Tensorflow.js, PostgreSQL, & GraphQL.

CarCam Built mobile application integrating advanced dashcam features & technology at a cheaper cost w/React Native. Developed algorithm for implementing speedometer feature of vehicle using geolocational coordinates of mobile device.

SKILLS

Programming Languages	JavaScript, Python, Java, C++, SQL, HTML, CSS
Frameworks and Technologies	React.js, React Native, MongoDB, Tensorflow, PyTorch, PostgreSQL, GraphQL
Computer	Visual Studio Code, Vim, Figma, Adobe Illustrator
Skills	Full-Stack Software Engineering, Machine Learning, Project Management
Languages	English, Korean
Interests	Classical Music, Violin, Guitar, Cinema, US History, Physics, Baseball