

RODERICK HUANG

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Double S.B. in Mathematics and Computer Science, MEng in EECS | GPA: 5.0/5.0

Sep 2021 - May 2025

Courses: Algorithms Design/Analysis, Deep Learning, Advances in Computer Vision, Probability & Random Variables, Fundamentals of Statistics, Automata Theory, Numerical Analysis, Software Construction

EXPERIENCE

Chicago Trading Company | Chicago, IL

Incoming Quantitative Trading Analyst Intern

Jun 2024 - Aug 2024

MIT EECS | Cambridge, MA

AeroAstro Researcher

Sep 2022 - Present

- Collaboration between MIT and NASA to predict technology roadmaps for earth observation missions
- Web-scraped 15,000 NASA projects and applied Markowitz Portfolio Theory (MPT) to derive efficient frontiers of technology portfolio investment weights and provide insights for strategic business decisions.

Teaching Assistant

- Leading recitation lectures in Math for Computer Science and organizing course logistics with professors
- Assisted Software Construction class of more than 500 students in debugging their lab projects

Amazon | Seattle, WA

Software Developer Engineer Intern

Jun 2023 - Aug 2023

- Worked under the Business Data Technologies team in backend development to construct datasets for Amazon's internal tools by applying topics in algorithms, graph theory, and database management
- Presented data analysis opportunities for engineers to improve performance optimization for internal tools

Verizon | San Jose, CA

Product Development Intern

Jun 2022 - Aug 2022

- Utilized data analysis and visualization for Verizon's Bluejeans video conferencing tool to outline proposals for advancing Bluetooth automation capabilities
- Conducted competitive analysis to align engineer and product manager needs to support the business model

IBM Accelerate Program | San Jose, CA

Software Developer Track

Jun 2022 - Aug 2022

- Aligned with an IBM coach to improve full-stack development and algorithmic knowledge in JavaScript

ACTIVITIES

Traders@MIT

Co-President

Sep 2022 - Present

- Organizing events and seminars in preparation for MIT's annual national quantitative trading competition
- Leading seminar series and networking events to educate about careers in quantitative finance

MIT Varsity Swimming & Diving

Class Captain

Sep 2021 - Present

- Conference record holder in 200 yard breaststroke, 2-time NCAA A-finalist
- NCAA Elite 90 award recipient as a sophomore for pinnacle achievements in both academia and athletics

PROJECTS

Crescendo - Full Stack Web Development

Sep 2023 - Present

- Co-developing a Solana NFT-based funding and social media platform targeting up-and-coming music artists
- Implementing Flask backend and integrating with Postgres DB, Spotify & Solana API, GAuth, etc.
- Designing on-chain Solana smart contracts to enable trading and fractional ownership of artist-minted NFTs

CSAIL "Invisible" Ink Computer Vision Research

Sep 2023 - Present

- Researching under the Human-Computer Interaction (HCI) Lab to develop applications with hybrid paper documents for interactive digital media by leveraging AR techniques and computer vision models
- Intending to present at leading tech conferences and deliver products in the startup space

MIT Poker Bots Competition

Jan 2023 - Feb 2023

- Competed against 100 other teams to program an autonomous pokerbot to solve River of Blood Hold'em, a poker variant, by utilizing concepts from game theory, statistics, and psychology
- Won Citadel's Best Run Bets award for most optimized betting amounts in later stages of the games

SKILLS & AWARDS

Technical Skills

- **Tools and Languages:** Java [Android Studio], Python [PyTorch, TensorFlow, numpy], LaTeX, AWS, RISC-V
- **Web Development:** HTML, CSS, JavaScript [Node.js/React/TypeScript], Python [Flask], MongoDB

Awards: 4-time AIME qualifier (Score: 9/15), 4-time USA Swimming Scholastic, MIT Class Student-Athlete Award

Interests: Cooking, traveling, casual table tennis, video games (Minecraft, GTA V), poker