Yohan De Guzman

US Citizen | yohan@uchicago.edu | (956) 340-0151 | Chicago, IL | LinkedIn | GitHub | Portfolio

EDUCATION

The University of Chicago **Chicago, IL**
B.S. in Computer Science, Specialization in Machine Learning *Expected May 2026*
GPA: 3.64/4.00

- **Coursework:** Data Structures and Algorithms, Operating Systems, Discrete Math, Object Oriented Programming
- **Honors:** Trott Emerging Rural Scholar, Jeff Metcalf Grant Recipient, CB National Recognition, High School Valedictorian
- **Societies:** Alpha Kappa Psi, Association for Computing Machinery, International Leadership Council, Algo Group

TECHNICAL SKILLS

Programming Languages: Python, C, JavaScript, Java, TypeScript, MySQL, SQL, R, HTML, CSS
Tools: Node.js, React.js, MongoDB, Git, GitHub, Jupyter Notebook, Agile, SpringBoot, REST APIs

WORK EXPERIENCE

Goalday+ **San Francisco, CA**
Software Engineering Intern *August 2024 — October 2024*

- Led the development of startup's Google Chrome extension that streamlined LinkedIn networking for B2B enterprises, significantly boosting lead generation efficiency by 29% and maximizing customer engagement
- Developed a script using Node.js, Playwright, and a REST API to scrape LinkedIn data and inputted results into MySQL
- Utilized OpenAI's text embedding models to rank connections based on their career relevance to user's product

Consulate of Colombia **Chicago, IL**
Software Engineer Intern *June 2024 — August 2024*

- Programmed a multi-language chatbot using OpenAI and Python, automating the consulate's ability to respond to queries
- Designed, developed, and deployed a backend with Flask and Twilio to respond to incoming WhatsApp messages with AI generated context-aware responses, achieving an average response time of 4 seconds or less
- Wrote comprehensive documentation for incoming interns, outlining chatbot guardrails to ensure proper, safe usage

UChicago Pritzker School of Molecular Engineering **Chicago, IL**
Sustainable Energy Research Intern *May 2022 — July 2022*

- Engineered a fruit powered solar panel and used Python to model the energy exchange between juice and TiO2 coating
- Tested voltage conversion efficiency factors like resistance, solar radiation intensity, and electrolyte abundance with Arduino Boards and Raspberry Pi. Concluded that blueberries are most efficient due to red shift that enhances light absorption
- Produced financial models to compare dye-sensitized solar cell performance with commercialized solar panels

LEADERSHIP

International Leadership Council Entrepreneurship & Technology **Chicago, IL**
Tech Track Leader *May 2024 — Present*

- Developed lesson plans surrounding the MERN stack to help members design prototypes and build scalable systems
- Examined the growth of startups and provided technical guidance to help students transform their ideas into a tangible impact
- Organized the 100 Days Challenge, where participants built startups and pitched to investors within UChicago's community

Gateway **Chicago, IL**
Startup Co-Founder *February 2024 — May 2024*

- Created and pitched a campus internship marketplace that earned 4th place in a UChicago-based startup competition
- Prototyped the MVP in Figma and carried out the frontend development using React and JavaScript. Implemented a Tinder-style swipe interface to enhance user engagement and simplify the matchmaking process

TECHNICAL PROJECTS

- **Centralized Sneaker API:** Designed and built a sneaker search app with Node.js and Express that fetches market data and performance reviews from YouTube, StockX, and Google Images, implementing database management practices like processing data asynchronously, minimizing 3rd party API queries, and updating MySQL for an efficient data pipeline
- **Handwritten Digit Recognition:** Trained a convolutional neural network using TensorFlow and NumPy to extract spatial hierarchies of features and classify images of handwritten digits, achieved a 95.5% accuracy on the MNIST digit dataset