Yohan De Guzman

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EDUCATION

The University of Chicago   **Chicago, IL**
B.S. in Computer Science, Specialization in Machine Learning   *Expected June 2027*
- **Major GPA: 3.90** | **Relevant Coursework:** Theory of Algorithms (In Progress), Discrete Mathematics (In Progress), Systems Programming I & II, Data Structures and Algorithms, Object Oriented Programming, Statistics
- **Societies:** Association for Computing Machinery, Alpha Kappa Psi, International Leadership Council, Algo Group

WORK EXPERIENCE

Goalday+   **San Francisco, CA**
Software Engineering Intern   *August 2024 — October 2024*
- Led the frontend 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 system with Flask and Twilio to manage incoming Whatsapp messages, query an AI script to generate response, and send response back to user, achieving an average response time of 4 seconds
- Wrote comprehensive documentation for incoming interns, outlining chatbot guardrails to ensure proper, safe usage

Gateway   **Chicago, IL**
Co-Founder/Software Engineer   *February 2024 — May 2024*
- Created and pitched an internship marketplace that earned 4th place in a UChicago-based startup competition
- Prototyped the Minimum Viable Product in Figma and carried out the frontend development using React and JavaScript, implementing a Tinder-style swipe mechanic to enhance engagement and simplify the matchmaking process

UChicago Pritzker School of Molecular Engineering   **Chicago, IL**
Research Intern   *May 2022 — July 2022*
- Created Python script to model unit conversion in the energy exchange between fruit juice and TiO_2 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 & ACTIVITIES

International Leadership Council Entrepreneurship & Technology   **Chicago, IL**
Tech Track Leader   *May 2024 — Present*
- Developed lesson plans surrounding the MERN stack to help members in designing prototypes and building scalable systems
- Organized the 100 Days Challenge, where participants built real startups and pitch to real investors within UChicago's body
- Examined the growth of startups and provided technical guidance to help students transform their ideas into a tangible impact

PROJECTS

- Centralized Sneaker API: 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 and used pooling layers for feature extraction and image classification, achieved a 95.5% accuracy on the MNIST handwritten digit dataset

TECHNICAL SKILLS

Tech Skills (In order of comfortability): Python, JavaScript, Node.js, MySQL, React.js, C, Java, TypeScript, R, MongoDB
Honors: Valedictorian, UChicago Trott Emerging Rural Scholar, Jeff Metcalf Grant Recipient, CB National Recognition
Interests: Basketball, Fashion, and Instagram Reels