Alex G Nuñez-Carrasquillo

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Education

University of Michigan Ann Arbor, MI
Bachelor of Science in Engineering in Computer Science January 2022 – May 2025
Minor in Mathematics 3.514 GPA
Coursework: Data Structures & Algorithms, Operating Systems, Web Systems, Computer Organization, Computational Data Analysis, Database Management Systems, Linear Programming, Mathematical Modelling, Computer Networks, Computer Security, Machine Learning, and Mobile App Development

Skills

Programming Languages: Java, Python, C/C++, JavaScript, MATLAB
Developer Tools & Frameworks: HTML/CSS, React, NextJS, Git, SQL & NoSQL Databases
Languages: English, Spanish

Projects

Course Projects: Built a scalable search engine using ReactJS which could parse scraped web data to construct an inverted index for searching; Designed a multithreaded networked file server using ports and sockets; Developed an Instagram clone using ReactJS which allowed users to perform CRUD operations with accounts, images, posts, and comments

Personal Projects: Developed a personal website built in React and NextJS, showcasing my skills and experience; Created a ride-share application for Android and iOS using Kotlin and SwiftUI for my major design experience course with a team of six people

Experience

University of Michigan, Transit Services Ann Arbor, MI
Motor Vehicle Operator August 2023 – Present

- Provided reliable, safe, and efficient transportation for 100+ students and faculty using the SafeRide service
- Worked in tandem with dispatch to reduce wait and transit times by identifying alternate, efficient routes, which reduced transit times by over 50%

CVS Pharmacy Ann Arbor, MI
Customer Service Representative October 2022 – August 2023

- Provided friendly customer service in the highest performing store in the district, scoring an average of 94% in customer reviews
- Utilized store inventory management system to ensure accurate stock counts, compliance with sell by dates, and process customer orders in less than 30 minutes

Lahann Laboratory, University of Michigan Ann Arbor, MI
Undergraduate Research Assistant May 2021 - April 2021

- Engineered and characterized auxetic polymer scaffolds with a cutting-edge RegenHu bioprinter, successfully producing 50+ prototypes for artificial heart tissue research and enhancing elasticity during laboratory testing
- Designed several millimeter-scale auxetic polymer scaffolds for seeding artificial heart tissue, which expanded by over 25% when stretched
- Characterized scaffold geometry using MATLAB's image processing toolbox and scaffold mechanical properties in response to stimuli