Daniel Andres Sanchez

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EDUCATION

University of Michigan College of Engineering   Ann Arbor, MI

Bachelor of Science in Engineering in Computer Science, Major GPA: 2.902/4.000 May 2025

Relevant Coursework:

- ENGR 101: Intro to Comp & Programming
- EECS 280: Programming & Data Structures
- EECS 370: Intro to Comp Organization
- EECS 481: Software Engineering
- EECS 485: Web Systems
- EECS 498: Quantum Programming
- EECS 493: User Interface Development

- ENGR 280: Ug Research-Extended Android App for Diabetes
- EECS 281: Data Structures & Algorithms
- EECS 376: Foundations of Computer Science
- EECS 482: Intro to Operating Systems
- EECS 495: Software for Accessibility
- EECS 499: Adv Directed Study-Chrome Extension for Dyslexia
- EECS 498: Advanced Operating Systems Projects

SKILLS

Computer Skills

- 3 years of hands on Python experience with Python/Flask, Python/Django, unittest (Python Unit Testing Framework), MapReduce(Apache Hadoop, Michigan Hadoop: Madoop and own barebones Hadoop implementation), TCP/UDP Client/Server sockets and threads
- 3 years of hands on C++ experience including algorithms projects and concurrent programming with threads
- 3 years of hands on Linux experience with advanced Bash scripting, Git, Vim, ssh, sftp, regex, sed, grep,
- Projects with Java, MATLAB, VPython, Javascript, React, Vue, HTML/CSS (Web Dev), Scheme (Functional Programming), Prolog (Logic Programming), Python w/ Qiskit (Quantum Computing Programming)
- Experience with IDEs/tools such as VS Code, Xcode, Eclipse; Mobile Android Development experience
- Experience creating VMs (virtual machines) on AWS; Learned basics of DevOps at AWS Conference

Language Skills ● Fluent in Spanish (Native Speaker)

PROJECTS

Instagram

- Fullstack reimplementation of main functionality of Instagram. Frontend was written in Javascript using React. Backend utilized Python and Flask to implement the APIs for users to create accounts, posts, and comments.

iTunes Song and Artist Search

- Web application using Javascript and Vue that allowed users to search for songs and artists via the iTunes API

EXPERIENCE

University of Michigan Electrical Engineering and Computer Science Dept.   Ann Arbor, MI
Research Assistant   Sep 2023 - Apr 2024

- Created accessibility software powered by Generative AI
- Developed Google Chrome extension to help people with dyslexia using React(Javascript) and HTML/CSS
- Implemented features like 1) text-to-speech using AWS Polly, 2) simplified summaries w/ ChatGPT (developed using prompt engineering of different versions of ChatGPT LLMs), & 3) conversion of fonts to OpenDyslexic font
- https://github.com/dasanchez981/fall23eecs495-ai-reading-assistant

D3 Financial Counselors   Downers Grove, IL
Intern   Jun 2016 - Aug 2016

- Given data entry task, leveraged CS knowledge to automate data entry using Bash
- Learned basics of financial planning

University Of Michigan Transportation Research Institute   Ann Arbor, MI
Research Assistant   May 2015 - Aug 2015

- Implemented enhancements to existing Android application that was deployed to Michigan Department of Transportation Vehicles to gather vehicle data
- Performed data analysis of vehicle information using Excel; Assisted with organization of research conference

University of Michigan Undergraduate Research Opportunity Program   Ann Arbor, MI
Research Assistant   Sep 2014 - Apr 2015

- Collaborated with small team to enhance an open source project called Nightscout
- Developed component that extended existing Android application to control LED lights

Blue Cross Blue Shield Association   Chicago, IL
Intern - Enterprise Information Technology   May 2014 - Aug 2014

- Helped maintain company apps such as e-mail service and remote desktop services(Citrix) through use of tools like ServiceNow and Excel; Proposed enhancements to improve efficiency of internal company process