Alex Ocegueda Castro

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EDUCATION

Wayne State College — Wayne, NE
Bachelor of Science in Computer Science — *Aug. 2019 – May 2023*

HONORS

Hispanic Scholarship Fund, Alumni — San Francisco, CA
Empowers students by providing support services, scholarships, and informative webinars — *Aug. 2021 – Present*

Dean's List — Wayne, NE
GPA: 3.4 — *Aug. 2021 – May 2023*

TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, Python, SQL (Postgres, MySQL), Java, C#, VB.NET
Frameworks and Libraries: Selenium, React, Node.js, Gatsby, BeautifulSoup, tKinter, Nextjs, JQuery, BootStrap

EXPERIENCE

Technician (1 Month Contract) — Apr 2024 – May 2024
Rebnord Technologies — *Storm Lake, IA*
- Assisted in installing of electrical systems, security cameras, and server equipment.
- Conducted routine maintenance tasks to optimize system performance and resolve technical issues promptly.
- Collaborated with senior technicians to complete server installations while prioritizing safety and quality standards.

Software Engineer Intern — Jan 2023 – May 2023
Daycos, inc — *Remote*
- Conducted code reviews ensuring adherence to coding standards improving code quality and team collaboration.
- Independently tackled assigned tasks and projects, efficiently managing time and resources while regularly consulting with team members to align with project goals.
- Demonstrated independent work capabilities by helping convert 80% of their SQL code to GraphQL.

PROJECTS

Phobia API w/ Web Crawler | *Flask, Python, SQLite3, Selenium, JSON, Beautiful Soup, NLTK* | *Github* | *Website*
- Pioneered the creation of a dynamic API for an extensive Phobia Database of over 100 phobias, empowering users to explore in-depth insights into phobia symptoms and treatment methodologies.
- Gathered data using automation tool that crawls 28 pages of diseases extracting headings, lists, and paragraphs.
- Employed Natural Language Processing (NLP) techniques to intelligently rank and extract the top 5% of sentences.

Climate Change Visualization Website | *Python, SQLite, Pandas* | *Github* | | *Website*
- Developed comprehensive data cleaning scripts to process datasets related to global and regional sea level trends, historical temperature records, and CO2 concentrations.
- Implemented a SQLite database schema with UI to efficiently store and manage multiple climate datasets, ensuring seamless integration and data retrieval.
- Designed and developed a Next.js website featuring interactive data analysis graphs using D3.js, providing intuitive visualizations of climate trends and making complex data insights easily accessible to users.

RuneScape Speedrun Plugin | *Java, Swing* | *Github*
- Helped the development of a open-source project enhancing player experience through a UI built with Java Swing
- Demonstrated Object-Oriented Programming skills by promoting maintainability and code reusability.
- Took initiative to contribute to creating valuable tools specifically designed to assist players in speedrunning quests

REFERENCES

Tim Rebnord — Rebnord Technologies
Senior Technician — *(712) 299 - 4011*