

Nicholas Hellmers

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EDUCATION

University of Colorado, Boulder
Bachelor of Science in Computer Science

Boulder, CO
Aug. 2019 – May 2024

EXPERIENCE

Undergraduate Course Assistant - Algorithms
University of Colorado, Boulder

August 2023 – December 2023
Boulder, CO

- Held office hours for students to walk them through questions they might have on the course material.
- Developed sample algorithm problems and study material to help students better understand technical concepts.
- Communicated technical ideas to students without using technical language.

Software Engineer
Parque Serenidad S.R.L.

Jan 2021 – Jul 2021
Asuncion, Paraguay

- Led a project and a small team to build a new client portal.
- Developed a full-stack web application in PHP for showcasing life insurance products.
- Deployed features to production using JavaScript, MySQL, PHP, HTML, and CSS.
- Implemented a relational database for cataloging and tracking life insurance products.
- Optimized existing features in a legacy codebase, resulting in a 50% improvement in system performance, both in time and space complexity.

Software Engineering Intern
Parque Serenidad S.R.L.

May 2019 - Jul 2019
Asuncion, Paraguay

- Maintained and optimized legacy PHP code, enhancing the performance of current business logic.
- Overhauled documentation to improve legacy code quality and developer experience.
- Learned and contributed to a proprietary PHP framework.

PROJECTS

Paraguay Products | *Solid.js, Golang, Python, Selenium, Postgres, Vercel*

April 2022 – Present

- Developed a multi-threaded product scraper using Python (Selenium) and Golang(GoColly) from 10 different stores.
- Published its results onto Kaggle and its own Postgres database, it is the largest database of Paraguayan e-commerce products, and the current count is 60,000+ real products.
- Implemented and deployed a full-stack application using Vercel to visualize and search through this database.
- Visualized and analyzed results for competitive advantage and statistical differences between products between different supermarkets and stores using Pandas, Numpy, Matplotlib.
- Currently has 547 views and 53 downloads on Kaggle.

Connect With Your Peers | *HTML, CSS, JavaScript*

Feb 2024 – Mar 2024

- Published Chrome Extension onto the Chrome Extension store that streamlines the networking between college students using the University of Colorado Canvas system and their LinkedIn accounts.
- Developed the Chrome Extension using JavaScript, HTML, and CSS.

Hermes - HTTP web server framework using TCP sockets | *C*

Mar 2024 – Apr 2024

- Created an HTTP web server framework from scratch using TCP sockets and a multi-process approach. Handles a request in 0.000072 seconds.
- Wrote and implemented an HTTP request parser and an HTTP response writer.

TECHNICAL SKILLS

Languages: Java, Python, C, C#, C++, SQL, JavaScript, TypeScript, HTML/CSS, Go, Rust, PHP

Frameworks: React, Node.js, Solid.js, Django, Next.js, FastAPI, Selenium, BeautifulSoup, Tailwind

Developer Tools: Git, Docker, Google Cloud Platform (GCP), VS Code, Unity, AWS, Vercel

Libraries: Pandas, NumPy, Matplotlib, GoColly, Selenium, BeautifulSoup

University Courses: Algorithms, Software Development, Data Structures, Theory of Computation, Object Oriented Programming (OOP), Operating Systems, Robotics, Natural Language Processing (NLP), Data Science and Statistics, Network Systems, Artificial Intelligence AI