

# Nicholas Hellmers Davalos

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## EDUCATION

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### University of Colorado, Boulder

Boulder, CO

*Bachelor of Science in Computer Science | GPA: 3.5/4.0*

*Aug 2019 - May 2024*

**Subjects:** Algorithms, Software Development, Data Structures, Theory of Computation, Object Oriented

Programming, Operating Systems, Robotics, Natural Language Processing NLP, Data Science and Statistics, Network Systems, Artificial Intelligence AI

## EXPERIENCE

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### Parque Serenidad S.R.L. | Asuncion, Paraguay

January, 2021 – July, 2021

*Software Engineer*

*PHP, MySQL, HTML5/CSS, JavaScript, DigitalOcean*

- **Led** a project to build a new portal for clients.
- **Developed** a full-stack web application in PHP to showcase life insurance products.
- **Deployed** features using JavaScript, MySQL, PHP, HTML, and CSS to production.
- **Implemented** a relational database to catalog and track life insurance products.
- **Optimized** existing features in a legacy code base, and measured an increase of 50% in overall system performance in both time and space complexity.

### Parque Serenidad S.R.L. | Asuncion, Paraguay

May, 2019 – July, 2019

*Software Engineer Intern*

*PHP, MySQL, HTML5/CSS, JavaScript*

- **Maintained** and optimized legacy PHP code and features mostly dealing with reducing time complexity in algorithm run-time.
- **Overhauled** documentation to improve legacy code quality of life.
- **Learned** and **contributed** to a proprietary PHP framework.

## TECHNICAL SKILLS

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**Languages:** Go, Java, Python, C/C++, Rust, SQL, JavaScript, HTML/CSS, Jupyter Notebook, TypeScript.

**Spoken Languages:** English, Spanish, Guarani.

**Frameworks/Libraries:** React, Node.js, JUnit, SolidJs, WordPress, MySQL, PostgreSQL, SQLite, Next.js, Angular, Vue, TailwindCSS, Chrome Extensions.

**Developer Tools:** Git version control, Docker, VS Code, Visual Studio, Anaconda, IntelliJ, Eclipse, Vim, GREP, Linux.

**Cloud Technologies:** AWS, Vercel, Digital Ocean, Google Cloud Platform, Github, Kaggle, Heroku.

## PROJECTS

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### Connect with your peers | Chrome Extensions, JavaScript, TypeScript

- Published a Chrome Extension that automates connecting with your classmates and professors on LinkedIn using Canvas.

### University Class Scheduler using Graph Theory | Go

- Built using **Go/Golang**, applies graph theory to solve most optimal time scheduling problems in polynomial time.

### HTTP web server framework using TCP sockets | C

- Created an HTTP web server framework from scratch using TCP sockets and a multi-process approach. Is capable of handling a request in 0.000723 seconds.

### Recipe and Grocery List Builder Website | EJS, JavaScript, Node.js, SQL (Postgres), TailwindCSS, Heroku

- Worked in a team using **Agile**. I developed the backend of the service, a **RestAPI** built using **Node.js/Javascript/Postgres**, handles routing, users, database, interfaced with the Kroger API to fetch ingredients available and their prices for recipe price output.

### Multi-threaded Web Scraper Supermarket Products | Go/Golang, MySQL, Solid.js, React, Vercel

- Multi-threaded and concurrent solution written in **Go/Golang** to scrape all products from 4 Paraguayan supermarkets, around **61,185 products**, in around 15 minutes. Publishes the results in an **SQL** relational database to be viewed on a web app built using **React** deployed with **Vercel** with search functionality for comparison of products between supermarkets.