Carlos Salinas

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Skills

Programming Languages: Python, Ruby, JavaScript, Java, R
Developer Tools: Emacs, Neovim, Git, Ruby on Rails, PostgreSQL, Node.js, Jupyter
Other Software: Linux, Bash, LaTeX, Markdown
MS Excel: PivotTables, formulas, charts and graphs, cell formatting, IF, SUM, INDEX, MATCH, VLOOKUP
Natural Languages: English—native, Spanish—native, Russian—fluent
Misc. Skills: Touch-typing (187 WPM), customer service, fort lift, order picker, power and hand tool, basic auto mechanics, basic assembly, heavy lifting

Experience

Stanley Black & Decker Mission, TX
Assembler *Dec. 2021 – present*

- Assembled 20V and 18V DeWalt batteries as part of an assembly line.
- Demonstrated attention to detail while moving at a fast pace.
- Spot faulty or otherwise low quality product before moving it down the line.

TELUS International Remote
Map Analyst *Jan. 2021 – present*

- Determine relevance and accuracy of map search results as part of an AI app pipeline.
- Determine accuracy of business information such as address, unit number, phone number, hours of operation and current operation status doing online research.

The Home Depot Lafayette, IN
Seasonal Garden Associate *Mar. 2021 – Jun. 2021*

- Engaged customers using the GET method. Provide product information and availability.
- Pack down the shelves and displays if possible. Assess product availability using company RF scanner.
- Operate fork lift or order picker outside store to load large customer orders, unload shipments for outside garden product, and to bring down or put up product in the overhead.
- Fork lift certified.

Purdue University West Lafayette, IN
Research Assistant/Teaching Assistant *Aug. 2014 – Aug. 2020*

- Led recitation for undergraduate math courses, including Calculus 1, 2, 3, Differential Equations and Linear Algebra.
- Published course-related content for students, such as lesson notes, quizzes, quiz, and midterm solutions, and score statistics to a university-hosted website.
- As a researcher, wrote notebooks to study the finite quotients of triangle and the free nilpotent group.

University of Texas–Pan American Edinburg, TX
Undergraduate Research Assistant/System Administrator *Sep. 2013 – May 2014*

- Managed the Experimental Algebra and Geometry Lab's Linux cluster, which included administering users, installing software, running services, and configuring the lab's GPU for use with Mathematica's CUDALink.

- Wrote an program to compute 2-special word families up to word-length 30 which leveraged the existence of trace formulas and dependence on lower order polynomials to reduce the search space. Published the sequence on the On-line Encyclopedia of Integer Sequences A237623.

Massachusetts Institute of Technology Cambridge, MA
Undergraduate Research Assistant *Jun. 2010 – Aug. 2010*

- Tested heat-treated Ti-Ta alloys of varying compositions for shape-memory and superelastic properties by means of hot oil recovery test. Took metallographs of samples to study the microstructure. Performed of mechanical tests, such as tensile test, and fatigue tests, and recorded the results.

Education

Purdue University, West Lafayette, IN Aug. 2020
Master of Science in Mathematics *GPA: 3.73/4.0*
University of Texas-Pan American, Edinburg, TX May 2014
Bachelor of Science in Mathematics *GPA: 3.86/4.0*

Outreach Experience

Purdue University West Lafayette, IN
Academic Boot Camp for Purdue's Minority Engineering Program *Jun. 2018 – Aug. 2018*

- Simulated a first semester Calculus experience for incoming undergraduate students in the MEP. Prepared and graded student homework and midterms. Assigned final letter grades and gave course recommendations based on student perfromance.

University of Texas–Pan American Edinburg, TX
Outreach Assistant for the Experimental Algebra & Geometry Lab *Sep. 2012 – May 2014*

- Introduced K12 students to interesting topics in higher mathematics, such as modular arithmetic, complex numbers, and spherical and hyperbolic geometry through kinesthetic activities.