

CARLOS SALINAS

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SKILLS

Programming Languages: Python, Ruby, R, JavaScript, Java

Developer Tools: Emacs, (Neo)vim, Git, Ruby on Rails, PostgreSQL, Node.js, Jupyter

Other Software: Linux, Bash, LaTeX, Markdown, Excel (Google Sheets) proficiency

Natural Languages: English—native, Spanish—native, Russian—fluent

Misc. Skills: Touch-typing (187 WPM), customer service, forklift, order picker, power and hand tool, basic auto mechanics, basic assembly, heavy lifting

EXPERIENCE

TELUS International

Map Analyst

Remote

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

- Engage 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 forklift 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.

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 a 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](#).

H-E-B

Pharr, TX

Overnight Stocker

Sep. 2011 – Dec 2011

- Walk designated aisles and start recovery, i.e. ensure merchandise is well stocked, in its proper place, and presentable; ensure shelves and displays maintain a clean, presentable looks.

- Discuss nightly goals and tasks with stock controller.
- Spot depleting product in the aisles and replenish products onto shelves. resumeItemLoad and unload bulk product with the assistance of a pallet jack if necessary.

Massachusetts Institute of Technology

Undergraduate Research Assistant

Cambridge, MA

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

MS in Mathematics

Aug. 2020

GPA: 3.73/4.0

University of Texas-Pan American, Edinburg, TX

BS in Mathematics

May 2014

GPA: 3.86/4.0

OUTREACH EXPERIENCE

Purdue University

Academic Boot Camp for Purdue's Minority Engineering Program

West Lafayette, IN

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 performance.

University of Texas-Pan American

Outreach Assistant for the Experimental Algebra & Geometry Lab

Edinburg, TX

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.