Mario Daniel Panuco

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Education

- **University of California, Santa Cruz** Santa Cruz, CA
  BSc., Computer Science Engineering (GPA:3.67) *Sep. 2021 - Present*
  - Relevant courses: Data Structures and Algorithms, Algorithm Analysis, Functional Programming, Linear Algebra, Mathematical Methods For Engineers, Artificial Intelligence
- **DeAnza Community College** Cupertino, CA
  Transfer GPA: 3.90 *Sep. 2019 - May 2021*
  - Dean's Honour List: F19, W20, F20, W21, S21
  - Relevant courses: Calculus, Discrete Math, Data Structures and Algorithms, Java, C++

Projects

- **PlankAI** Rust
  Independent Project *July. 2022 - Present*
  - Applied knowledge of Statistics, AI and Scientific Computing to computationally model agents within an environment
  - Implemented the codebase with Rust packages nalgebra, rand chacha, serde, and wasm bindgen
  - Wrote "rustic" tests for the each component of the library
- **Video Game Store (Triforce Games)** Java
  Data Structures and Algorithms Final Project, CIS 22C *2021*
  - Implemented common data structures like Lists, BSTs, Min-Heaps, Hash-Table
  - Designed fictional user and catalogue databases and CLI for both employees and customers
  - Collaborated with 4 other people
- **CLI Countdown Timer** Rust
  Independent Project *Jun. 2022*
  - Created a countdown timer that is accurate to the nanosecond
  - Utilized common Rust packages for CLI tools like termdown (terminal manipulation), clap (argument parsing)
- **Rust Utilities** Rust
  Independent Project *Sept. 2022 - Present*
  - Implemented BST and Graph data structures
  - Implemented common sorting algorithms like quicksort and mergesort
  - Built the library using Rust

Work Experience

- **LSS at University of California, Santa Cruz** Santa Cruz, CA
  Small Group Tutor For CSE 102 (Introduction to Algorithm Analysis) *May 2002 - Aug. 2002*
  - Facilitated a group learning environment for students
  - Collaborated on common algorithms problems with other fourth-year CS-students
  - Helped students meta-cognitively recognize design patterns in algorithmic questions

Skills

Languages: Python, Rust, Bash, LaTeX, C, C++, Java, Assembly (x86 and RISC-V),

Frameworks: Pytorch, NumPy, Ski-Kit, Pandas, SciPy, Matplotlib, Seaborn

Operating Systems: Linux (Ubuntu), UNIX, Windows 10

Applications: MatLab, Pycharm, CLion

Tools: GIT, Markdown, Shell Scripting, Anaconda

Awards

UCSC Campus Merit Hihn Scholar 2021