Alfredo Fernandez

github.com/addier94| linkedin.com/in/addier94
|fernandezalfredo.com

EDUCATION

UTEPSA UNIVERSITY
MEng in Computer Science
Dec 2017 | Santa Cruz, Bo

FULLSTACK BOOTCAMP
IMMERSIVE SOFTWARE DEV.
May 2023 | Santa Cruz, Bo
Curriculum: FullStack JavaScript and Computer Science Award: for most technically Challenging project Reached highest rank (1 kyu) on Codewars.com

LANGUAGE
Spanish, Native | English, C2

SKILLS

TECHNICAL SKILLS
Proficient with: TypeScript • JavaScript •
Shell • Linux
React • Redux • Node.js •
Mysql
HTML • CSS3 • CSS • Git • Nextjs

SOFTSKILLS
Outstanding: Bilingual Communicator (Spanish, English)
Public Speaker • Leader • Motivator

TECHNICAL PROJECTS

SORTING VISUALIZER | WEBSITE, GITHUB
Sep 2023 | Santa Cruz, Bo
- Built React Redux application for visualizing sorting algorithms.
- Implemented Merge Sort, Quick Sort, Heap Sort, and Bubble Sort.

PROGRAMMING LANG. AND INTERPRETER | GITHUB, TALK
Jun 2023 | Santa Cruz, Bo

- Built small programming language and interpreter in JavaScript
- Implemented variable declaration. functional calling. conditionals, loops. order of operations, recursion, and error handling

PATHFINDING VISUALIZER | WEBSITE, GITHUB, TALK
May 2023 | Santa Cruz, Bo
- Built VanillaJS application for visualizingpathfinding and maze-generation algorithms
- Implemented 9 different algorithms and co-developed unique pathfinding algorithm based on A*Search and Dijkstra's Algorithm

FLOW | WEBSITE, GITHUB, TALK
Jan 2023 | Santa Cruz | Bo
- Built and deployed Chrome extension and website in react/Redux
- Conceptualized and designed frontend of extension
- Implemented backend routes connecting website to extension
- Led daily Scrum meetings and managed project goals on Waffle.io

BUSINESS PROJECTS

ROBOT LEARNING LAB | Researcher
Dec 2023 | Santa Cruz, Bo
Worked with **Ashesh Jain** and **Prof Ashutosh Saxena** to create **PlanIt**, a tool which learns from large scale user preference feedback to plan robot trajectories in human environments.

CORNELL PHONETICS LAB | Head Undergraduate Researcher
Mar 2023 | Santa Cruz, Bo
Led the development of **QuickTongue**, the first ever breakthrough tongue-controlled game with **Prof Sam Tilsen** to aid in Linguistics research.

PUBLICATIONS

[1] A. Jain, D. Das, and A. Saxena. Planit: A crowdsourcing approach for learning to plan paths from large scale preference feedback. *Tech Report, ICRA*, in press.

[2] S. Tilsen, D. Das, and B. McKee. Real-time articulatory biofeedback with electromagnetic articulography. *Linguistics Vanguard*, in press.