

KARLA VILLA ESTRELLA

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ABOUT ME

Technical Skills: C/C++, Java, Python, Linux, Bash, JetBrains, Eclipse, Git, GitHub, Android Studio

Web & Design: HTML/CSS, JavaScript

Languages: Fluent in Spanish

Interest: Cats, Dogs, Social Justice, Pool, Darts

WORK EXPERIENCE

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| Program Assistant - <i>Hope's Corner</i> | 08/2022-Present |
| <ul style="list-style-type: none">- Helped with facilitating different programs for the unhoused- Assisted with training volunteers | |
| Coding Instructor - <i>Athena Coding (Contract)</i> | 01/2023-03/2023 |
| <ul style="list-style-type: none">- Taught kids programming fundamentals using Roblox and Minecraft | |
| Executive Assistant - <i>Sunnyvale Dental Care</i> | 08/2016-09/2021 |
| <ul style="list-style-type: none">- Managed calendars, patient appointments and answered phone calls | |
| Student Researcher - <i>Research for Undergraduates on the Mathematics of the Bay Area</i> | 09/2020-04/2021 |
| <ul style="list-style-type: none">- Conducted research on food desserts in the Bay Area- Collected data from the Census Bureau to track low-income areas in the Bay Area- Collected data from the US Department of Agriculture to track the grocery stores in low-income areas- Used Python to organize and present data | |

PROJECTS

Shell

- Programmed a simple shell program in C
- Acquired knowledge about parent and child processes by forking a new child process to execute user requests
- Used signals to communicate with processes

Scheduling Algorithms Simulation

- Programmed a simulation in C for the different scheduling algorithms: Round Robin, First Come First Serve, and Shortest Remaining Time First
- Acquired knowledge on the performance of each algorithm

Journeys

- Developed an application in Java that lets users track their route
- Used Google Maps SDKs and APIs to track user's route and display their route
- Used Google Cloud Database to store each journey of the user and fetch previous journeys at user's request
- Developed a user friendly interface using Android Studio

EDUCATION

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| California State University, East Bay | 08/2020-Present |
| <ul style="list-style-type: none">- Computer Science, BS (May 2023)- Classes: Data Structures, Software Engineering, Analysis of Algorithms, Operating Systems, Deep Learning, Information Security, Web Development, Mobile Programming, Computer Architecture, and Automata and Computation- Clubs: Dreamers Club | |