

Alan Constantino

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Education	Bachelor of Science in Computer Science <i>California State University, Northridge (2022)</i>
Programming	Java Python JavaScript/HTML/CSS Bash
Skills	Adaptable Determined Problem solver Quick learner Team Player Results Oriented
Projects	<p>FarmSignal (Senior Design Project) github.com/AlanConstantino/FarmSignal</p> <ul style="list-style-type: none">• Spearheaded a team of six people to develop an open-source solution for an automatic plant watering and monitoring system involving a Raspberry Pi, various sensors, a full-stack web application, and a Python command line application.• Led the front-end team and expedited the creation of several React UI components and pages by designing component and page mockups.• Utilized React alongside Material-UI for rapid UI component development.• Created a Python command line application that guides the end user through a calibration sequence and collects and sends sensor data to the back-end.• Developed a watering algorithm in Python which accurately monitors and waters the plant.• Aided the back-end team by implementing JWT authentication as a middleware in Express.JS allowing them to finish a major feature two weeks ahead of our scheduled sprint deadline.• Meticulously wrote documentation on hardware wiring and assembly to help team members assemble the project remotely. This documentation was later used for the final public release.• Utilized agile methodologies like SCRUM and Kanban boards to stay focused and on schedule.• Utilized technologies like Git and JIRA to track features and issues as well as plan weekly sprints.• Planned weekly sprints and meetings in which we brainstormed new ideas, gave/received constructive feedback, and resolved any issues whether technical or interpersonal.• Showcased and presented our project at CSUN's annual CECS Senior Design Showcase. <p>MoMoney Mobile Application github.com/AlanConstantino/MoMoney</p> <ul style="list-style-type: none">• Managed a team of three people and picked up and utilized Google's Flutter framework alongside their programming language, Dart, within a 3-week time span.• Developed and created an SQLite database to keep track of the user's income and expenses.• Created several front-end UI components and integrated database functionality to them.• Designed a few UML (Unified Model Language) diagrams such as class, sequence, and activity diagrams.• Utilized Git version control and Trello boards to stay coordinated with team members. <p>Java Inventory System github.com/AlanConstantino/inventory-system</p> <ul style="list-style-type: none">• Developed a command line inventory system for a "make believe" movie rental storefront by utilizing Java. The system keeps track of the current number of movies in stock, orders movies if below a certain threshold, prints order labels for movies that need restocking, and also keeps track of buy and return orders.• Leveraged doubly linked lists for quick insertion and deletion of movies.• Reads and writes to "txt" files to keep track of waitlisted customers and the movies in stock.
Event	<p>CSUN AI-Jam <i>California State University, Northridge (2019)</i></p> <ul style="list-style-type: none">• Worked in a team of five people to create an AI model that recognizes ASL hand signs.• Developed a few Python scripts for image collection and manipulation which effectively sped up the process of sifting through and selecting image data to feed the neural network.• Utilized Python libraries such as Numpy and OpenCV for image manipulation.
Language	Able to read, write, and speak Spanish at an advanced level and understand it at a native level.
Fun Fact	I have been utilizing Arch Linux as my main operating system for the past year and a half.