

# JULIAN CASTRO

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**Technologies:** HTML, CSS, JavaScript, Node, Express, SQL, Knex, PostgreSQL, React, REST, OOP, VSCode, Figma, CLI, Git

## SOFTWARE PROJECTS

**Prints For A Purpose** | [GitHub](#) • [Live Deployment](#)

Brooklyn, NY | Jun 2023 - Jul 2023

*At Prints For A Purpose, our mission is to connect individuals in need of assistive devices with a compassionate global community of skilled builders. Using 3D printing technology, we can create affordable solutions that enhance independence and transform lives.*

- Designed an invite system that enables seamless team collaboration on the frontend while doubling as a secure channel to separate private and public discussions on the backend, thereby ensuring the privacy and protection of sensitive details for all.
- Implemented interactive progress dashboards to serve as indispensable tools for guiding teams in the fabrication process by providing directly actionable roadmaps for project development, thus facilitating organized efforts and efficient task management.
- Enhanced the React frontend by refactoring the JSX with NextUI once successful MVP was reached. Modified the PgSQL database to allow dynamic searching based on skill tags for Fabricators, as well as device category, complexity, and status tags for Requests.

**Bird Go** | [GitHub](#) • [Live Deployment](#)

Brooklyn, NY | May 2023 - May 2023

*Bird-Go is a platform for bird enthusiasts, citizen scientists, and bird watchers to share information and foster a sense of community around our avian friends. Users can upload pictures of local birds, have their identification accuracy voted on, and engage with user sightings of birds.*

- Developed RESTful API endpoint routing using Express.js. Authentication and authorization functionalities were implemented using Bcrypt and session cookies, enabling secure user access and full CRUD capabilities for profiles and sightings.
- Dynamically generated the pages with template engine Pug.js using JSON returned from the PgSQL server through Knex queries.
- Created a voting system to moderate species identification, allowing users to vote on the accuracy of user sightings.

## EXPERIENCE

**Developer Consultant** | *All Tech Is Human* | [GitHub](#) • [Live Deployment](#)

Remote | Aug 2023 - Sep 2023

- Led end-to-end development of a job board on Squarespace, prioritizing user accessibility and mobile optimization. Embedded custom code blocks using JavaScript, CSS3, and HTML5, maintaining brand consistency and ensuring a cohesive UI/UX experience.
- Seamlessly integrated the application's backend with ATIH's database using airtable.js, ensuring real-time data sync and data integrity. Crafted an advanced search system for job seekers, enabling multi-parameter job filtering, utilizing endpoint filter formulas for precise and rapid search results.
- Implemented data analytics through GTAG.js API to capture and analyze user behavior, feeding insights into most popular job experience levels, sub-fields, and application trends.

**Developer Consultant** | *Penta Medical Recycling* | [GitHub](#) • [Mirror Deployment](#)

Remote | Jul 2023 - Sep 2023

- Spearheaded the redesign and construction of Penta's new web application, improving user experience and accessibility for over 60 nonprofit partners across 39 countries, directly impacting the lives of countless individuals in need of prosthetic care.
- Leveraged React to craft an e-commerce-inspired inventory request system, making it more user-friendly and intuitive for nonprofits to efficiently browse, select, and order recycled prosthetic components.
- Incorporated a robust search and filtering system, augmented with visual depictions of each component, simplifying the discovery process amidst thousands of inventory items.

## EDUCATION

**G-SWEP Fellow** | [Google](#)

Remote | Oct 2023 - Present

- Currently enrolled in Google's 10-week Software Engineering Program, focusing on mastering data structures, algorithms, technical problem-solving, and interview skills alongside industry professionals.

**Software Engineering Fellowship** | [The Marcy Lab School](#)

Brooklyn, NY | Sep 2022 - Sep 2023

- Completed 2,000 hours of coursework in web development, CS fundamentals, and leadership development.

**Sophie Davis Biomedical Education Program** | [The City College of New York](#)

Manhattan, NY | Aug 2020 - Jan 2022

- **Biomedical Major Completed Courses:** Epidemiology and Biostatistics, Biology of Organisms, Creative Expression: Narrative Medicine, Physics 1 & 2, Professional Foundations, Principles of General Chemistry, Introduction to Population Health and Community-Oriented Primary Care, Writing for the Sciences, Bio-Organic Chemistry, Practice of Medicine, Modern Psychology

## SKILLS

**Languages:** English (Native), Spanish (Native)

**Passions | Hobbies:** Piano, Literature, Citizen Science, Art History