Bryant Jimenez

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EDUCATION

Stanford University **Stanford, CA**

GPA: 3.26/4.00

B.S Candidate in Computer Science *Expected 2024*

Relevant Coursework:

- Programming Methodologies and Abstractions, Computer Science
- Computer and Network Security
- Artificial Intelligence
- Design and Analysis of Algorithms
- Computer Organization and Systems, Principles of Computer Systems, Compilers
- Web Applications
- Databases and Data Systems

PROJECTS

- **Flair (TypeScript, Next.js, TailwindCSS, ReactJS, Sanity, Stripe) - https://flair-ecommerce.vercel.app/**
  - Developed fullstack ecommerce app where users can add items to cart, sort and search products by different criteria, view items through custom image gallery, manage cart, and checkout through Stripe.
  - Utilized Sanity Headless CMS for efficient item and inventory management. Inventory data described through schema queried using Sanity GROQ to sort products by price and date, as well as implemented full-text search.
  - Implemented server-side logic to integrate Stripe API, process payments, and handle async webhook events for order updates, ensuring a smooth user experience by providing real-time payment confirmation and order fulfillment.
- **Photo Sharing Web App (JavaScript, HTML, CSS, ReactJS)**
  - PhotoSharing website where users can log in, register, upload photos, and view other user's details and photos. Can like, comment, and @mention other users on any user's pictures. Interactions through the browser generate API calls to the backend to retrieve and populate data, which are then rendered on the front end through REST API. (class project)
- **Stanford Bash Shell (C/C++)**
  - Extended simple shell to support process control, job lists, signals, pipelines, and I/O redirection.
  - Utilizes multithreading techniques to support commands like **quit, bg, fg, exit, jobs, halt, slay, cont.**
- **Basic Compiler for COOL Language (FLEX/Bison/C/C++)**
  - Implemented lexical analyzer, writing rules that match on user-defined regular expressions and perform a specified action for each matched pattern.
  - Wrote parser for COOL language to output an abstract syntax tree (AST).
  - Engineered a semantic analyzer for COOL that manages naming and scoping, type checking, and full error message generation for erroneous programs.
  - Wrote code generator that produces MIPS assembly for any COOL program.

SKILLS

- **Programming/Frameworks:** Python, C/C++, Unix, SQL (BigQuery), JavaScript/CSS/HTML/React, Golang, MATLAB, TypeScript, TailwindCSS, Next.js
- **Languages:** Native in English and Spanish, Japanese (studying)

ACTIVITIES

Los Hermanos de Stanford **Stanford, CA**

Member *2/20 - Present*

- Helped fundraise $1500 scholarship yearly for Chicanx/Latinx high school students to pursue postsecondary education.
- Developed community knowledge and skills for Chicanx/Latinx empowerment in the workplace, promoted cultural awareness and participation in the Chicanx/Latinx community at Stanford.

Interests: Volunteer Work at the Denver Animal Shelter, learning Japanese