Jorge Casero

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Education

University of Michigan, Ann Arbor — **Ann Arbor, MI**
B.S.E. in Computer Science and B.S. in Economics — *Tentative Grad. Date: May 2022*

- GPA: 3.45
- Relevant Coursework:
  - EECS 281: Data Structures and Algorithms
  - EECS 370: Intro. Computer Organization
  - MATH 214: Applied Linear Algebra
  - MATH 216: Intro. Differential Equations
  - ECON 401: Inter. Microeconomic Theory
  - ECON 452: Inter. Stats. and Econometrics II
- Fall 2020 Coursework:
  - EECS 482: Intro. Operating Systems
  - EECS 485: Web Systems

The Lawrenceville School — **Lawrenceville, NJ**
High School Diploma — *Grad. Date: May 2018*

Technical Skills

- Programming Languages: C++, Python, C, SQL, Java, Rails, HTML/CSS
- Technologies: AWS, Flask, Jinja, Ruby on Rails, Photoshop, Premiere Pro, Microsoft Office
- Languages: English, Spanish, French

Projects

Spotify Playlist Suggester

- Simulated Vector Space Model with Python program that suggests songs to add to playlist based on similarities between lyrics of songs on the cloud and songs on the playlist.
- Used Spotify's and Genius' APIs to obtain songs and lyrics from playlists, respectively.

CPU Cache Simulator

- Developed cache simulator in C that processes assembly language, transferring data between cache and memory, and optimizing program speed.
- Adaptive cache allowed for direct-mapped, set associative, and fully associative implementations.

Piazza Post Classifier

- Used simplified Natural Processing Language and Machine Learning techniques in C++ to predict the label of unlabeled Piazza posts based on past posts and labels.
- Accurately predicted the label of 2602/2988 posts (~87%).

Support Local Businesses – Ann Arbor (www.slb-annarbor.com)

- Launched server-side dynamic web application containing information on resources to support local businesses after being impacted by COVID-19.
- Used AWS, Flask, Jinja, shell scripting, and MySQL to generate EC2 instance.

Experience

Landit — **New York City, NY**
Software Engineering Intern — *Summer 2019*

- Generated automated tests for Rails web application using Jest and Cypress for front-end and Rspec and Capybara for back-end.
- Generated and analyzed automated internal and external monthly metrics reports using PostgreSQL to identify user's tendencies on the web application.

Extracurricular Activities

Theta Tau Professional Engineering Fraternity — **University of Michigan**
Corporate Sponsorship Representative/Recruitment Chair — *November 2019 - Present*

Delta Tau Delta Social Fraternity — **University of Michigan**
Marketing Chair — *December 2018 - Present*