Alejandro Garcia

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Education

University of San Francisco, *San Francisco, CA*   **August 2017-May 2020**
   B.S in Computer Science
Miami Dade College, *Homestead, FL*   **August 2015-May 2017**
   Associate in Arts

Relevant Courses

- Data Visualization
- Operating Systems
- Computer Architecture
- Software Development
- Introduction to Parallel Computing
- Data Structures & Algorithms

Projects

Experts To Learn From
- A website where users can browse/submit experts of different categories and rank them to find the best people of a subject to learn from
- Every expert has information about them like book recommendations, blog posts, tweets, videos, etc. that users can submit
- In charge of upkeeping/configuring the server cluster and implementing the Backend functionality

Does History Repeat Itself?
- A visualization website that showcases the trend of US news articles based on The New York Times Archive API
- Created the visualizations using D3.js and JavaScript, designed/tested all the visualizations components, and wrangled/filtered the data from the API
- Currently two visualizations: 1. Top 100 NYT Keywords (1891-2020) and 2. Time Series of NYT Keywords

The Crucible
- A team capstone project that uses JavaScript and TypeScript to create an environment for AI's to train themselves
- We developed the features of the environment such as game physics, rules, game features (obstacles, player customization, game fog, etc.), port/socket connections, and UI of the game
- Used Agile mythology to structure the development, to evaluate/test the features, and to meet our sponsor
- Implemented a quadtree to be used for the collision detection of the players, which allowed the comparison for finding player collisions to become $O(\log n)$ instead of $O(n^2)$

Technical Skills

- **Programming languages**: Java, Python, C, GO, C#
- **Website design**: JavaScript, D3.js, Node.js, Express.js, React.js, Flask, HTML/CSS, TypeScript
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Tools & Environments:** Tableau, Postman, Linode, Azure, Cloudflare, Git, VM, Terminal, Eclipse, Visual Studio, Android Studio

Work Experience

Backend Developer: Sophia, *Remote*   **December 2020-Apr 2021**
- An open-source project to build a private and secure service to backup and share photos/videos
- Implemented the Backend infrastructure and Serverless APIs

CS Tutor: USF Computer Science Department, *San Francisco, CA*   **August 2019-May 2020**
- Assisted students in their labs/projects and ensured better understanding of concepts

Research Assistant: USF Computer Science Department, *San Francisco, CA*   **March 2019-May 2020**
- Implemented/researched new features for a Data Visualization project alongside a CS Faculty
- Attended weekly meetings to discuss new features to implement and report bugs/errors

Profile

- Born in Miami, Florida
- Bilingual: English & Spanish
- Hobbies: photography/filmmaking, video editing, video game development, reading and learning Japanese