

# 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*

## 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
- Upkeped/configured the server infrastructure in a Linode Sever and operated the MongoDB backup
- Constructed the Backend instance and implemented the Restful APIs and user authentication with Express.js and Node.js

### 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 request
- 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
- **Website design:** JavaScript, Node.js, Express.js, React.js, Vue.js, D3.js, Flask, HTML/CSS
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Tools & Environments:** Tableau, Postman, Linode, Azure, Firebase, Cloudflare, Git, VM, Terminal, Visual Studio, Android Studio

## Work Experience

**Full-Stack Developer: SoonForward, Remote**

**Apr 2021-Present**

- Refactored the Backend-end system with Flask and migrated the service from AWS to Azure for better flexibility and cost-saving efficiency
- Implemented IAM for role-based user access and integrated user authorization with Google OAuth with Firebase
- Attended meeting with clients to demonstrate the services and gather feedback for improvements

**Backend Developer: Sophia, Remote**

**December 2020-Apr 2021**

- Led the migration towards Serverless APIs for scalability using Cloudflare Workers
- Constructed/optimized the Backend infrastructure and evaluated new security approaches

**Research Assistant: USF Computer Science Department, San Francisco, CA**

**March 2019-May 2020**

- Designed/researched new features for a mobile interactive Data Visualization project alongside a CS Faculty
- Attended weekly meetings to discuss new features to implement and report bugs/errors
- Demonstrated the project at CS events and to other faculty members

## Profile

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