

# Raphael Gatchalian

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Software engineer and immigrant passionate in exploring & paving intersections of **technology**, **design**, & **community**

## Education

### University of California, Los Angeles

Grad. 2023

*Bachelor's in Computer Science and Linguistics; Cum Laude (GPA: 3.88)*

*Los Angeles, CA*

*Minors in Digital Humanities & Cognitive Science; Upsilon Pi Epsilon CS Honor Society*

**Relevant Coursework:** Advanced Algorithms & Complexity, Programming Languages, Formal Languages & Automata, Artificial Intelligence, Computational Linguistics, Computer Architecture, User Experience Research, Software Construction

## Experience

### The Walt Disney Company

Jun 2022 – Nov 2022

**Software Engineer Intern**, Disney Streaming Experience Engineering Department

*Santa Monica, CA*

- Played pivotal role in unifying & maintaining browsable viewer surface area and content management platform & API powered by Java Spring Boot delivered for Hulu, Disney+ & Star+ tenants in Agile/Scrum environment
- Designed robust REST API suite of event writers, mappers, & producers with dedicated error handling in Kotlin and Java, facilitating seamless backwards compatibility between legacy and unified streaming platform portals
- Configured AWS S3 object storage using Terraform to enable uninterrupted integration of legacy systems with unified content portal, ensuring 11 nines of durability for processing Kinesis streams and API requests/responses
- Enhanced front-end JSX routing for sets of editorial programming content in curation microservice in React.js

### Tesla, Inc.

Jun 2021 – Sep 2021

**Software Engineer Intern**, Vehicle Software Team

*Palo Alto, CA*

- Implemented Infotainment UI test scripting in C++ with Qt & Ruby for homologation, navigation, & charging
- Optimized vehicle data retrieval CI/CD pipeline for 400+ vehicle configurations of Models S/X/3/Y using Bash scripting, Jenkins build jobs, & Docker containerization and deployment to accelerate test automation & validation
- Reduced QA test times up to 99% by orchestrating and automating vehicle configuration retrieval with Kubernetes
- Designed and updated Splunk dashboards with metrics of vehicle memory usage, facilitating efficient issue triage

### LA Blueprint

Nov 2020 – Jun 2021

**Full Stack Developer**, Farm2People Team

*Los Angeles, CA*

- Developed online marketplace & inventory management web app employing React.js, Airtable, and Material UI components to streamline end-to-end distribution process of food to buyers and relief agencies for local non-profit
- Implemented and designed user authentication interface connected to and encrypted in Airtable and MongoDB database, adhering to IAM (OIDC) protocols, encompassing management of user credentials & persistent sessions

## Projects

**myhitboard** | *JavaScript, React.js, Next.js, Node.js, PostgreSQL, TailwindCSS*

Sep 2023 – Present

- Developed React & Next.js web app using Spotify & Last.fm APIs that enables users to view and store their top tracks
- Implemented OAuth-adherent server-side API route handling in JavaScript to prevent exposure of private identifiers
- Configuring a PostgreSQL backend for secure storage of users' historical top tracks lists with Vercel deployment

**NLP Analysis of Genocide Survivor Testimonies** | *Python, spaCy, NLTK, pandas*

Oct 2022 – Mar 2023

- Conducted independent technical research on 70+ Rwanda genocide testimonies from the USC Shoah Foundation
- Utilized natural language processing methods including LDA topic modeling & feature extraction with Python packages such as NLTK & spaCy to analyze texts, yielding insights into sentiments and possible sub-classifications

**Narra: Personality Networking** | *JavaScript, React.js, MongoDB, Express, Node.js*

Oct 2021 – Jun 2022

- Ideated and developed social networking web application with 4 teammates using the MongoDB, Express, React.js, and Node.js stack that matches users according to personality type, with persistent sessions and state management

**World Happiness: A Closer Look** | *HTML, CSS, JavaScript, Bootstrap, AMP, jQuery*

Aug 2020 – Jan 2021

- Applied Bootstrap & AMP frameworks with HTML, CSS, & jQuery to create a streamlined, accessible, and visually appealing website presenting World Happiness Report data as sole web developer in team of 5

## Technical Skills & Interests

**Languages:** JavaScript (+ Typescript), Python, Java (+ Spring Boot), C/C++, SQL, Kotlin, Ruby, Bash, HTML/CSS, PHP

**Frameworks & Libraries:** React.js + Next, Node.js, Express, jQuery, TailwindCSS, MaterialUI, AMP, NumPy, pandas, Matplotlib

**Tools & Programs:** Git, AWS (S3, Kinesis, Lambda), Docker, Terraform, Jenkins, Vercel, PostgreSQL, Airtable, MongoDB, Jira

**Interests:** Graphic/UI/UX design & illustration, diversity & equity, tech education, volunteer tutoring & peer counseling