**Nicky Liu**

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**PROFILE**

Full stack web developer with a passion for psychology and user experience. With a background in philosophy and psychology I discovered web development through video games and my interest in user experience, and have become proficient with an array of various software development technologies. I look forward to being able to combine my background in psychology with my interest in software development to create engaging websites and great user experiences.

**TECHNICAL PROJECTS**

**League of Cards** - <https://github.com/NickyLiu91/League_of_Cards> ([Demo](https://youtu.be/H-kjyRMXHjE))

*A card game featuring characters from League of Legends where you get cards, create decks, and fight a computer.*

- Utilized Rails/PostgreSQL API backend to create a relational database between cards, decks, and accounts

- React frontend dynamically displays changes to background, text, cards, and field in response to user input

- Restructured frontend using Redux to store user account information so different aspects can be easily accessed, displayed, and modified as needed by various components as the player interacts with them

- Functional AI that will make the optimal moves each turn by taking into consideration the current state of the AI and player field, the AI hand, and any potential combos

**Granblue Fantasy Gacha Simulator -** <https://github.com/NickyLiu91/GBF-Gacha-Simulator> ([Demo](https://www.youtube.com/watch?v=SNKGeqO6UHw&feature=youtu.be))

*A simulator for rolling on the gacha machine for the popular browser/mobile game Granblue Fantasy.*

- Restructured backend API to use Node.js/MongoDB from Rails and PostgreSQL since database only consists of simple objects with no relations to each other

- React frontend to activate a roll and cycle through results when corresponding buttons are clicked

- Employed Redux to store currency and results from rolls in global state so they can be displayed, and updated by several several different components without having to pass props

**Mobile BlackJack** - <https://github.com/NickyLiu91/Mobile-Black-Jack> ([Demo](https://www.youtube.com/watch?v=TiFxoiVKYO8))

*Blackjack vs AI for iOS.*

- ReactNative used since card games are simple, lightweight, and often played as a distraction on handheld devices

- Display cards on the field and in both players hands, as well as dynamically updates based on player and AI moves

- AI makes moves based on dealer rules and the player’s visible cards while preferring a safe approach

**TECHNICAL SKILLS**

JavaScript, React.js, Redux, React Native, Node.js, Ruby, Ruby on Rails, SQL, RESTful APIs, HTML, CSS, PHP, SCSS, Amazon Web Services, C#, Java

**WORK EXPERIENCE**

**Trilogy Education** - *Teaching Assistant*, Fullstack Web Development, Columbia University September 2019

- Assist instructor with attendance, grading homework, and answering students’ questions

- Help students during coding activities and projects

**Computer Programming Blogger,** Medium *April 2019*

- Published instructional articles on how to use various programming technologies

- Writer for two publications, Future Vision (340 followers) and The Startup (470k followers)

**Private Tutor** *April 2010 - January 2016*

- Improved students’ school and test grades through one-on-one tutoring with a focus on English and essay writing

**Joshua Aronson’s Psychology Research Lab -** *Research Assistant,* New York University *September 2011 - January 2014*

- Set up study foundations by synthesizing information focusing on education, learning, and academic achievement gaps

- Supported studies by designing flyers and questionnaires and entering, cleaning, coding and analyzing data

**EDUCATION**

**Flatiron School -** New York, NY- *December 2018*

- 15 week immersive Full Stack Web Development program, SQL, Ruby, Ruby on Rails, JavaScript, React.js

**City University of New York -** New York, NY - *Web Design and Development Certificate* **-** *April 2018*

**New York University** - New York, NY - *Bachelor of Science in Psychology and Philosophy - May 2013*

- Overall GPA: 3.757 (Cum Laude), Dean’s List, Fall 2010 - 2013, Founder's Day Award - 2013, Psi Chi Honor Society