

# Elijah Espiritu

818-738-4202 | [elijahespiritu.r@gmail.com](mailto:elijahespiritu.r@gmail.com) | [linkedin.com/in/elijah-espirtu/](https://www.linkedin.com/in/elijah-espirtu/) | <https://github.com/Xronier>

## EDUCATION

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### California State University, Long Beach

*Bachelor of Science in Computer Science, Cum Laude*

**GPA:** 3.562

**Awards:** Dean's List, President's List

Long Beach, California

*Aug. 2018 – May 2022*

## EXPERIENCE

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### Undergraduate Research Assistant

December 2021 - Present

*California State University, Long Beach*

*Long Beach, CA*

- Developing an online learning software for automatic creation and grading of randomly generated assignments
- Reducing instructor workload by creating test and homework questions in a containerized web application using Python, HTML/CSS, and JavaScript
- Contributing to an established codebase using Git through pull requests, code reviews, and branching/merging
- Having the software used by hundreds of students in programming courses via homework, exams, and projects

### Deep Learning Lab Member

January 2022 - May 2022

*California State University, Long Beach*

*Long Beach, CA*

- Worked in a small team to classify Buddhist texts from various sources into three main branches
- Applied NLP and deep learning techniques to pre-process large data sets using Python, Keras, and Tensorflow
- Used the BERT, GAN-BERT, and LSTM neural networks for standalone performance comparison
- Achieved 78-85% weighted F1 score on all models

## PROJECTS

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### Tripease | *Django REST framework, JavaScript, React, MySQL, AWS*

August 2021 - May 2022

- Collaborated with a small team to create a full stack itinerary building web application
- Implemented a Django REST API as the backend framework that connects to the frontend via Redux
- Used several APIs from Google's Maps Platform to create a specialized map for trip planning
- Created a database hosted on Amazon RDS for MySQL and deployed on Heroku and Netlify
- Streamlined development by creating detailed project documentation/UML and designing wireframes and mockups with Figma beforehand

### Memories | *JavaScript, React, Node.js, Express.js, MongoDB*

April 2022

- Created a fullstack social media web app where users can perform CRUD operations on a MongoDB database
- Developed a REST API using Node.js, Express.js, and MongoDB
- Used React to create a responsive website that is deployed on Heroku and Netlify

### Virtual Realities | *C++*

February 2020 - May 2020

- Created an application that allows users to play board games like Othello or Connect Four against each other
- Used object oriented programming and implemented the Model-View-Controller architecture
- Implemented polymorphism to allow for easy integration of games that follow a similar structure (e.g. placing pieces that result in consequences)

### Sakuranbot | *Python, SQLite*

July 2021 - August 2021

- Designed, implemented, and employed a Discord bot that issues foreign language quizzes and extracts popular posts from social media such as Twitter or Reddit
- Implemented the Discord, Reddit, and Twitter APIs to process and generate content via user commands
- Reduced bot response time by using server side asynchronous programming and an SQLite database

## TECHNICAL SKILLS

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**Languages:** Python, Java, HTML, CSS, C++, JavaScript, C

**Technologies/Frameworks:** Django, Express.js, React, SQL (MySQL, SQLite), NoSQL (MongoDB), Github, Docker

**Libraries:** Tensorflow, Scikit-learn, Keras, NumPy