

# William Lu

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## EDUCATION

**Hunter College** - Bachelor of Arts in Computer Science - Expected Spring 2022 - GPA: 3.851

*Honors:* Daedalus Computer Science Scholarship, Dean's List

*Relevant Coursework:* Data Structure, Discrete Math, Computer Architecture, Calculus I, Calculus II

**App Academy** - Immersive software development bootcamp with 1000+ programming hours and < 3% acceptance rate - Summer 2019

**SKILLS** JavaScript, React.js, Redux, jQuery, Ruby, Ruby on Rails, SQL, HTML5, CSS3, Java, C++, Python

## PROJECTS

### Flamingo

<http://pinkflamingo.herokuapp.com/> | <https://github.com/willorwgl/Flamingo>

*A web app inspired by Facebook, built with JavaScript, Ruby on Rails, React, Redux, HTML5, CSS3, Webpack, and AWS*

- Leveraged JavaScript, HTML5 and CSS3 to build an interactive and user-friendly single-page application that has user authentication, posting, commenting, and friending functionalities
- Optimized the volume of queries to the PostgreSQL database and heavily DRYed up backend code by utilizing a one-to-many polymorphic table for post and comment likes
- Ensured user privacy and autonomy through frontend and backend authentication measures and React Router, allowing users to only make changes to their own profile, posts, and comments

### Uninfo

<http://luwilliam.me/uninfo/> | <https://github.com/willorwgl/uninfo>

*A data visualization of 4-year university statistics built with JavaScript and D3.js*

- Integrated Google Maps and Wikipedia APIs and custom search functionality to dynamically present university locations, summaries, and images based on user parameters
- Designed interactive data visualizations of university statistics, including test scores, admission rates, and cultural diversity, using d3.js
- Generated smooth page-transition animations and data processing using asynchronous JavaScript such as async/await, promises, and callbacks

### ExploreNews

<https://github.com/willorwgl/ExploreNews>

*A Spring Boot based web applications that utilizes NewsApi to allow users to search for articles from all over the world and in hundreds of languages.*

- Utilized Spring Security, Spring Social, and Hibernate to implement database authentication and OAUTH 2.0 that supports Google, Facebook, and Twitter

## EXPERIENCE

### Teaching Assistant

*Brooklyn Chinese-American Association, Jun 2016 - Sep 2016*

- Fostered meaningful relationships among over 30 students through student field-trip retreats and team-work community service projects
- Supported classroom activities, including tutoring, grading homework and reviewing exams