

45 Pond Place  
Babylon, NY 11702

# JACKSON N. LUDWIG

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## EDUCATION

|   |  |                            |
|---|--|----------------------------|
| <b>Stony Brook, NY</b>  | <b>Stony Brook University</b>  | <b>Currently Enrolled</b>  |
| <ul style="list-style-type: none"><li>• B.S. in Computer Science (Expected June 2022).</li><li>• GPA 3.75</li></ul>   |  |                            |
| <b>Selden, NY</b>   | <b>Suffolk County Community College</b>  | <b>Graduated June 2020</b> |
| <ul style="list-style-type: none"><li>• A.S. in Computer Science.</li></ul>   |  |                            |
| <b>Coursework:</b>  |  |                            |
| <ul style="list-style-type: none"><li>• Functional Programming Abstractions</li><li>• Advanced Object-Oriented Programming</li><li>• Computer Architecture and Organization</li></ul> | <ul style="list-style-type: none"><li>• Data Structures and Algorithms</li><li>• Analysis of Algorithms</li><li>• Discrete Mathematics</li><li>• Theory of Computation</li></ul> |                            |

## LANGUAGES AND TECHNOLOGIES

- **Proficient:**
    - Python; Java; Lua; Go; JavaScript; HTML/CSS;
  - **Familiar:**
    - Rust; Go; OCaml; Assembly; SQL; C
  - **Novice**
    - PHP; C++
- Technologies:**  
React; Git; Jira; Flask; Node.js; Linux; Vim; Emacs; Docker; Ansible

## PROJECTS

**Parking Lot System** (2018). Desktop application to manage a parking garage. Created with a team of programmers. **Java/JavaFX.**

- Admin and employee accounts.
- Check in/out vehicles.
- Dynamic ticket generation.
- Track information about all parked vehicles.

**College Application System – CAS** (2019). Mobile application to facilitate college applications in the US. **Android/Java/XML/Cloud Firestore/NoSQL.**

- Account system, authentication.
- Save info about colleges in a list of favorites.
- View info about user accounts and all US colleges.
- Update data on demand.

**Pong** (2020). Two-dimensional videogame inspired by the classic game *Pong*. **Rust/OpenGL bindings.**

- Game based on event loop.
- Collision detection for ball, paddle, and borders.
- Paddle, background, and ball drawn on screen.
- Point system.

**SmiteBot** (2020). Application that interfaces with the Discord (a chat program) API. **Python/HTML/MySQL.** Also implemented using **Rust.**

- Variety of user commands.
- Data stored in MySQL database.
- Data acquired through web scraping.
- Data can be updated at any point.

## RELEVANT EXPERIENCE

|  |                                      |                                   |
|--|--------------------------------------|-----------------------------------|
|  | <b>theCoderSchool</b>                |                                   |
| <b>Code Coach</b>  | <b>(45 Ira Rd, Syosset NY 11773)</b> | <b>January 2020 – August 2020</b> |
| <ul style="list-style-type: none"><li>• Online and in-person.</li><li>• Introduced simple computer architecture concepts (binary, data structures, and more).</li><li>• First teacher at the company to use online learning during the pandemic.</li><li>• Worked as a team with other teachers for coding events.</li><li>• Taught coding to students aged 7 to 21.</li></ul> |                                      |                                   |

## ADDITIONAL EXPERIENCE AND AWARDS

- Dean's List (Fall 2018-Present) (Suffolk County Community College)
- Phi Theta Kappa Honor Society (Fall 2019-Present) (Suffolk County Community College/Stony Brook)
- AP Scholar with Distinction (2016-2018) (Bayport-Bluepoint High School)