

United States,  
In New York

# JACKSON N. LUDWIG

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## EDUCATION

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**Selden, NY** **Suffolk County Community College** **Fall 2018 – June 2020**

- A.S. in Computer Science.

**Stony Brook, NY** **Stony Brook University** **Fall 2020 – Present**

- B.S. in Computer Science (Expected June 2022).
- GPA 3.7

### Coursework:

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| <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> |
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## TECHNICAL EXPERIENCE

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### Projects

- **College Application System – CAS** (2019). Mobile application to facilitate college applications in the United States. A user can create an account/login in order to find the best college for them based on several different filters. Users can view a college's name, address, email, cost, SAT scores, and more. Android/Java/XML/Cloud Firestore/NoSQL.
- **Pong** (2020). Two-dimensional videogame inspired by the classic game *Pong*. Using the systems programming language Rust, a game window, paddle, and ball are drawn on the screen. The player must hit the ball with the paddle as it bounces around the screen to earn points; letting it pass the paddle results in a loss. Rust/OpenGL bindings.
- **SmiteBot** (2020). Application that interfaces with the Discord (a chat program) API to provide interactive options for the videogame *Smite* by Hi-Rez Studios. The program queries a MySQL database. Data can be updated on the fly and is retrieved through scraping websites. Python/HTML/MySQL. I also implemented this project using Rust.
- **College Management System** (2018). Desktop application to manage Suffolk County Community College. A user can search for textbooks, courses, classrooms, students, or faculty and then observe and change their different attributes. Includes classes a student has taken, is taking, and will take, and his/her GPA dynamically based on grades received in those classes. Java/JavaFX.

### Languages and Technologies

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- Proficient:
  - Java; Python; Lua; Rust
- Familiar:
  - Go; OCaml; Assembly; HTML/CSS; SQL; C
- Novice
  - JavaScript; PHP; C++

### Technologies:

Vim; Emacs; Visual Studio; Eclipse; IntelliJ IDEA; Android Studio; PyCharm; Roblox Studio

## EMPLOYMENT

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**Code Coach** **theCoderSchool** **January 2020 – August 2020**

- Taught coding to students aged 7 to 21.
- Introduced simple computer architecture concepts (binary, data structures, and more).
- First teacher at the company to use online learning during the pandemic.
- Worked as a team with other teachers for coding events.

### ADDITIONAL EXPERIENCE AND AWARDS

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- 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)