

MacKenn Bross

✉ bross.mackenn@gmail.com

🌐 macbross.com

in [linkedin.com/in/macbross](https://www.linkedin.com/in/macbross)

🐙 github.com/LUMacKenn

EDUCATION

Candidate for B.S.E. in Computer Science,
Minors in Data Science and History

University of Pennsylvania

📅 August 2017 – May 2021

📍 Philadelphia, PA

3.17 GPA

Highlighted Courses:

Scalable and Cloud Computing

Marketing/Social Systems on the Internet

Software Design/Engineering

Automata, Computability, and Complexity

Data Structures and Algorithms

Linear Algebra

Computer Architecture

Graduate of Magnet Program for Math and Science,
AP Capstone Program

Morris Hills High School

📅 Sept. 2013 – June 2017

📍 Rockaway, NJ

4.00 GPA

WORK AND EXPERIENCE

Software Engineering Intern

Candid™

📅 June 2019 – August 2019

📍 New York, NY

- Using Retool with SQL queries and JavaScript, I built internal tools and automated processes for lab employees.
- Using Python and the Django web framework, I created Django Rest API endpoints and interfaced with external tools such as Salesforce to support the CRM team.
- As a member of the engineering backend team, I was assigned and completed user stories of various types.

Lifeguard, Counselor, Boating Instructor

Glen Wild Lake Swim Camp

📅 June 2015 – August 2018

📍 Bloomingdale, NJ

- Planned/supervised activities and worked with 100+ campers aged 3-17, actively engaging with all campers and performing emergency first aid.
- As a Boating Instructor, I focused on teaching boating safety and sailing skills and techniques.

Co-founder

Computers 4 Kidz

📅 August 2015 – July 2018

📍 Butler, NJ

- Co-founded the non-profit, setup Linux Mint on refurbished computers, and performed on-site installation of computers in homes of under-privileged students.
- Computers 4 Kidz is in the process of expanding its program to help students in other low-income areas.

PROJECTS

Game Designer and Programmer
'College Simulator' Game (Ongoing)

📅 Sept. 2018 – Present

- Using C# and the Unity environment to create user interface for 2D rogue-like game.
- I am working directly with the art team to implement custom assets for the project.
- Under development by the Game Research and Development (UPGRADE) club.

Full Stack Developer

'farmaC' App and Website

📅 Feb. 2019 – May, 2019

- Used JavaScript and CSS to create website. Used Java to write Android application.
- Interfaced with MongoDB using RESTful API.
- Completed for Software Design/Engineering final project.

Backend Developer and MapReduce Programmer

'notebook' Social Media Platform

📅 Nov. 2018 – Dec. 2018

- Used JavaScript with jQuery to write web backend.
- Used Java and Hadoop MapReduce to interface with Amazon AWS and compute friend recommendations for users using the adsorption algorithm.
- Completed for Scalable and Cloud Computing final project.

SKILLS

Programming Languages (in order of proficiency): Java, Python, C#, JavaScript, C, HTML, CSS, OCaml

Software and Tools: Git, Unix command line, Processing, Hadoop MapReduce, PostgreSQL, Retool, Django, SolidWorks, Amazon AWS, Node.js, Docker, Unity, Arduino, Android Studio

AWARDS

- Best Auto/Transport Hack by ACV Auctions (PennApps XX)
- Tom Newmann Scholar