

Mackenn Bross

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EDUCATION

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

University of Pennsylvania

📅 August 2017 – May 2021

📍 Philadelphia, PA

3.26 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 Development Engineering Intern

Amazon Web Services

📅 May 2020 – August 2020

📍 Seattle, WA (remote)

- Created prototype of a new user interface for a V1 AWS product using React.
- Organized and led meetings with stakeholders to refine project requirements and meet the needs of other internal teams.

Software Engineering Intern

Candid™

📅 June 2019 – August 2019

📍 New York, NY

- Built internal tools and automated processes for lab employees using Retool with SQL queries and JavaScript.
- Created Django REST API endpoints and interfaced with external tools such as Salesforce to support the CRM team, using Python and the Django web framework.
- Completed user stories of various types as a member of the engineering backend team.

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.

AWARDS

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

PROJECTS

Game Designer and Programmer

'College Simulator' Game

📅 September 2018 – March 2020

- Used C# and the Unity environment to create user interface for 2D rogue-like game.
- Worked 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

📅 February 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

📅 November 2018 – December 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

Languages:

Java, Python

C#, CSS, JavaScript

C



Software and Tools:

Processing/P5.js

Hadoop MapReduce

PostgreSQL

Retool

Django

ReactJS

Amazon AWS

Node.js

Docker

Unity

Arduino

Android Studio

Other Interests:

Small Lake Sailing, Fencing, Chess, Vexillology