Amari Brooks

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EDUCATION

Edwardsville High School, 6161 Center Grove Rd, Edwardsville, Il 62025 — High School *Diploma*

August 2015 - May 2019

Brown University, Brown University, Providence, RI, 02912 — *B.Sc Computer Science*

September 2019 - Now

Experience

AI/Deep Learning:

Brown University CSCI1410 (Artificial Intelligence)
- **Adversarial Search**
- **Knowledge Representation and Reasoning**
- **Hidden Markov Models**
- **Reinforcement Learning**
- **Supervised Learning**

Udemy Machine Learning Bootcamp
- **Regression**
- **Classification**
- **Clustering**
- **Association Rule Learning**
- **Dimensionality Reduction**

Brown University CSCI1470 (Deep Learning)
- **Keras implementation (from scratch)**
  - **Creating the keras library from scratch**
- **Convolutional Neural Network**
- **Language models**
- **Image Captioning**
- **Variational Autoencoders**

Udemy Deep Learning Bootcamp
- **Recurrent Neural Network**
- **Self-Organizing Maps**
- **Boltzmann machine**

Web Development:

Brown University CSCI0320 (Software Engineering)
- **CSV Parser**
- **Server Implementation/Deployment**
  - **API development**
- **Mock Testing**
- **Fuzz Testing**
- **REPL implementation**
- **Maps**

Udemy Web Development Bootcamp
- **Backend Web Development**
  - **Node.js**
  - **Express.js**

SKILLS

Leadership

Teamwork

Public Speaking

Proficient Writing

Data Analysis

Data Organization

Organizing Events

Proficient using data structures

Proficient at Object-Oriented Programming

Coding Languages

C++

Java

Python

HTML/CSS

C

Javascript/React

- APIs
- Databases
  - PostgreSQL
  - MongoDB
- Authentication and Security
- Web3
  - DApp
  - Crypto token
  - NFT
    - Minting NFT
    - Building an NFT marketplace

Udemy React Bootcamp
Udemy Javascript Bootcamp

UI/UX:
Brown University CSCI1300 (UI/UX Design)
- Personas
  - Creating storyboards and personas of User Experience
- Responsive Redesign
  - Redesign a Website using the general design principles
- A/B Testing
  - Testing websites A and B using user feedback and comparing that data using statistical methods like t-tail test and chi-squared-test.
- React Interface Development
  - Creating a React web app
- Iterative Design

Udemy CSS Bootcamp

Computer Systems:
Brown university CSCI0330 (Introduction to Computer Systems)
- **Maze Generation, Encoding, and Decoding using assembly code**
- **Traps Deactivation using Assembly Code**
- **Buffer**
  - Creating a Buffer that allows the programmer to manipulate the allocated memory so that they can "attack" the program.
- **Shell Implementation (from scratch)**
- **Malloc**
  - Dynamic storage allocator for C programs

Mathematics:
Brown University MATH100 (Calculus 2)
Brown University MATH520 (Linear Algebra)

Game Development:
Unreal Game Engine