

KEVIN ANDERSON

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Education

East Carolina University, Wayne Community College

Greenville, NC - Goldsboro, NC

Associates of Science

July, 2022

- **Selected Coursework:** Linear Algebra, Data Structures, Algorithms, Discrete mathematics, Object Oriented Programming, Operating Systems

Experience

ECU ACM Chapter

Greenville, NC

Treasurer

August 2023 - TBH

- Worked with ECU Student Government to fund ECU's yearly hackathon, Called Spark
- Worked to fund other endeavors such as a trip to HackNC and various workshops.

Undergraduate Research

Greenville, NC

Investigator

January 2024 - TBH

- Researching facial learning algorithms to create an algorithm that can discern expressions and through an avatar, create the depicted expression. We use PyTorch to manipulate and create algorithms and Open-CV to run the majority of the camera software.
- Ideally this technology will be used to create a better version of modern virtual avatars at a more affordable cost than the current methods which involve hand drawing every variation of a model.
- Keep all technology used open source to maintain the project's availability, and encourage market by forcing official paid models to create better versions of the software at affordable costs. While also pushing the possible uses of A.I. forward.

Personal Projects

Triangular Arbitrage (Hackathon, Spark 2023) - [LINK](#)

January, 2023

- Using the Kraken API, We built a system for taking currencies, then finding 2 additional currencies that when exchanged through, then back to the original currency, would result in a higher total value.
- For the sake of making it an educational tool. Python's turtle library was used to demonstrate the exchange in real time.

Community Trader (Hackathon, HackNC 2023) - [LINK](#)

October, 2023

- Using C++ we created a database for Logging Individuals along with their proposed resources for trading. Ideally excess resources can go to individuals in greater need for them. Companies may find such a system useful too.
- Using Advanced Data structures we formatted this data into a structured form easy for access by the users.

Ducky OS Kernel - [LINK](#)

January, 2024

- Using benutils and a GCC cross compiler as my development tools.
- Used C to build the Base of the OS, Creating a basic kernel with terminal capabilities. Used Assembler instead of base assembly to save on time.

ECU Transit (Hackathon, Spark 2023) - [LINK](#)

March, 2024

- Created the Back-end RESTFUL API to manage individual drivers and their schedules.
- Back-end was built in Java using the Spring framework and connected to a MySQL server.
- The Front-end was built in React JavaScript, using Vite and building tool to save on time.

Technical Skills

Languages: C/C++, Lua, Java, Python, C#, Visual Basic, HTML/CSS

Developer Tools: Neovim, VS 2022 Community, Unity, Linux, VScode, IntelliJ, eclipse, Spring-Boot, Wireshark

Technologies/Frameworks: Love2d, RHEL, Spring, Postgres, MySQL, .net, Winforms, JavaFX