

Nicolas Barrios

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OBJECTIVE: To apply my object-oriented programming experiences for applications in distributed systems.

EDUCATION

UNIVERSITY AT BUFFALO
BS/MS IN COMPUTER SCIENCE
Expected 2022 | Buffalo, NY
School of Engineering & Applied
Sciences
GPA: 3.78 / 4.0
Minor: Mathematics
Presidential Scholar

LINKS

Github://nbarrios1337
LinkedIn://nbarrios1337
Twitter://@nbarrios1337
Keybase://nbarrios

COURSEWORK

Intro. to Computer Science I & II
Discrete Structures
Data Structures
Systems Programming
Intro. to Human-Computer Interaction
Algorithms & Complexity
Computer Organization

SKILLS

PROGRAMMING

PROFICIENT IN:

C • C++ • Java • Python • Shell

FAMILIAR WITH:

Android • Assembly • HTML • CSS •
Javascript • \LaTeX

OPEN SOURCE WORK

NVME-CLI

NVME MANAGEMENT COMMAND
LINE INTERFACE.

Github://linux-nvme/nvme-cli

Contributed to the shell auto-completion
features of the command line interface.

EXPERIENCE

TEACHING ASSISTANT | SYSTEMS PROGRAMMING

Aug. 2019 – Present | Buffalo, NY

- Collaborating with professors and fellow teaching assistants to reinforce course materials.
- Hosted lab sessions where students developed course-relevant programs.

OUTREACH AND TECHNOLOGY LEAD |

ARTIFICIAL INTELLIGENCE INSTITUTE

Mar. 2019 – Present | Buffalo, NY

- Managing social media outlets (i.e. Twitter, LinkedIn, website) of the institute by publishing and maintaining content.
- Analysed data for an improved, AI-based, cross-publication reference tool for researchers.

EVENT COORDINATOR |

SCHOOL OF ENGINEERING & APPLIED SCIENCES

Oct. 2017 – May 2018 | Buffalo, NY

- Organized events for prospective SEAS freshmen coming into the university.
- Presented the university's engineering and scientific accomplishments in an incentivizing way.

PROJECTS

SENTINEL | DEVELOPER

Aug. 2019 - Present

- Developing an Android app to showcase a phone's sensors and their capabilities.
- Github://nbarrios1337/Sentinel

DYNAMIC MEMORY ALLOCATOR | DEVELOPER

Apr. 2019 - May 2019 | Buffalo, NY

- Implemented a dynamic memory allocator suitable for replacing malloc() for heap memory in a Unix process.

DIGITAL CODENAMES | CONTRIBUTOR

Jan. 2018 - May 2018 | Buffalo, NY

- Recreated the **Codenames** board game with our growing knowledge of Java.
- Developed event handling system using object-oriented project structures.
- Github://nbarrios1337/Codenames_in_Java

RESEARCH

EMERGING BIOMETRICS LAB

Jun. 2018 – Aug. 2018 | Buffalo, NY

- Worked with **Wenyao Xu**, Assistant Professor in Computer Science and Engineering, to create a ECG waveform classifier, a proposed tool which could continuously authenticate a user, providing better security than current authentication methods.