NATHANAEL BRACY

bracynj@clarkson.edu — bracynj@ieee.org — (413) 801-7771 — https://bracy.dev

<div style="display:flex; justify-content:space-between;">

School Address
Department of Electrical & Computer Engineering
Clarkson University
Potsdam, New York 13676

Permanent Address
359 Hartford Pike
Dayville, Connecticut 06241

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OBJECTIVE

Highly motivated Computer Engineering major with a broad interest in software development and embedded systems seeking an internship/entry level position.

EDUCATION

ACADEMIC HISTORY

Bachelor of Science, Computer Engineering
Clarkson University, Potsdam, New York   August 2023 – May 2026

- Recipient of a Clarkson Engineering Scholarship in recognition of academic excellence.

Undergraduate Coursework, Computer Engineering
Connecticut State Community College, Danielson, CT   August 2022 – May 2023

Undergraduate Coursework, Liberal Arts
Thomas Aquinas College, Northfield, MA   August 2021 – May 2022

RELEVANT COURSEWORK

- Systems and Signal Processing
- Front-End Web Development
- Data Structures and Algorithms
- Computer Networks
- Embedded Systems

EXPERIENCE

Fullstack Engineering Intern
Rappo (https://buildrappo.com/)   *May 2024 - August 2024*

- I built our landing page based on our designer's specifications using Tailwind CSS and Astro, and am working with the rest of the team to build out the rest our platform.

PROJECTS / CONTRIBUTIONS

Shards, Maintainer
https://github.com/servusdei2018/shards

- Shards is an open-source library I created that extends discordgo with seamless integration with Discord's Sharding API.

Yarn Social, Contributor
https://git.mills.io/yarnsocial/yarn

- Refactored auth/login flow to redirect users to the page from which they logged in.
- Redesigned the server-side in-memory cache to resolve issues related to performance and cache consistency.
- Implemented support for feed avatars and descriptions.
- Improved support for Twitter/X feed aggregation.

RavynOS, Contributor
https://github.com/ravynsoft/ravynos

- Implemented automatic mounting of removable media under the /Volumes directory.

Bumble, Contributor
https://github.com/google/bumble

- Implemented an asynchronous write queue for the PacketSink class, ensuring writes are properly awaited.

NVIDIA Container Toolkit, Contributor
https://github.com/NVIDIA/nvidia-container-toolkit

- Introduced shell metacharacter escaping for exec, to help prevent injection attacks.

React Native Windows, Contributor
https://github.com/microsoft/react-native-windows

- Fixed TextInput.isFocused() to correctly handle a null focused input.
- Replaced usage of private function _Starts_with() with C++20 standard std::string.starts_with().
- Replaced an instance of a std::string with a string view, avoiding an unnecessary copy.

SKILLS

- Solid working knowledge of Linux, git, make, and Docker.

- Proficient in microservice architecture and serving/consuming REST APIs.

- Expertise in C++, Go, Python, TypeScript, JavaScript, LaTeX, Markdown, HTML5 and CSS.

MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE)
Clarkson Open-Source Institute (COSI)
Clarkson University Outdoors Club (CUOC)