NATHANAEL J. BRACY
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EDUCATION

Clarkson University, Potsdam, New York
Bachelor of Science, Computer Engineering, Minor in Mathematics GPA 3.6/4.0

- Relevant coursework: Data structures and Algorithms, Object-Oriented Programming, Linear Algebra, Network Fundamentals, Computer Architecture, Algorithms and Abstractions

EXPERIENCE

Software Engineering Intern
Rappo (https://buildrappo.com/) *May 2024 - Present*

- Developed company landing page using **Astro.js** and **Tailwind CSS** resulting in a visually appealing and responsive **frontend**.
- Utilized **TypeScript** to develop portable web components, streamlining code reuse and improving overall codebase maintainability.
- Set up and configured **backend** systems on **Google Cloud Platform (GCP)**, optimizing server performance and deployment processes.
- Managed **version control** and coordinated code changes using **Git** and **Docker**, following best practices for branching, opening pull requests, and merging to maintain a smooth development workflow.
- Implemented **unit tests** and **end-to-end testing** using Jest and Cypress, ensuring high code quality and reliability.

PROJECTS

Shards Jan 2021 – Present
https://github.com/servusdei2018/shards

- Developed an open-source library to enhance the performance and **scalability** of Discord bots created with discordgo by integrating with Discord's **shard management** API.
- Contributed to the open-source community by maintaining comprehensive **documentation**, resolving issues, and incorporating user feedback, demonstrating expertise in **community engagement**.

Yarn Social Nov 2021 – Jan 2022
https://git.mills.io/yarnsocial/yarn

- Enhanced the **authentication** flow by implementing a redirect mechanism that returns users to their original page after logging in, improving overall user experience and navigation.
- Redesigned the server-side **in-memory cache** to address performance bottlenecks and ensure cache consistency, resulting in a more efficient and reliable application.
- Optimized Twitter/X feed aggregation by leveraging **web scraping** and **content summarization**, enhancing data integration and handling to ensure more accurate and timely updates from social media sources.

MEMBERSHIPS

- Institute of Electrical and Electronics Engineers
- Clarkson Open-Source Institute

TECHNICAL SKILLS

- Programming Languages: C++, Go, Python, Java, TypeScript, VHDL
- Frameworks: Astro, Cypress, Express, Gin, Jest, Puppeteer, Vue
- DevOps: CI/CD, Docker, Git, Kubernetes