

## NATHANAEL J. BRACY

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### EDUCATION

**Clarkson University**, Potsdam, New York  
*Bachelor of Science*, Computer Engineering

Aug 2023 – May 2026  
GPA 3.6/4.0

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

### 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