

DAVID "CARTER" BRAINERD

brainerd.d@northeastern.edu | (202) 262-0846 | Boston, MA 02120 | <https://carterbrainerd.me>

EDUCATION

Northeastern University

Sept 2019 – Present

Khoury College of Computer Sciences

Candidate for a Bachelor of Science degree in Computer Science

Boston, MA

- **Honors:** National Hispanic Scholarship recipient, Dean's List
- **Relevant courses:** Foundations of Cybersecurity, Discrete Structures, Math of Data Models, Object-Oriented Design, Networks and Distributed Systems, Public Speaking, Algorithms, Network Security, Computer Systems, Systems Security, Software Development Best Practices

TECHNICAL KNOWLEDGE

- **Languages:** Python, Java, Ruby, Bash, SQL, Crystal, HTML/CSS, C#, Solidity, C, ASM, JavaScript, Powershell
- **Software:** Git, AWS, Terraform, MySQL, Docker, JetBrains, Nginx
- **Concepts:** Googling, Databases, Cryptography, Blockchain, Networking, Secure coding
- **AWS:** Lambda, API Gateway, VPC, EC2, ECS, SNS, SQS, RDS, CloudFormation

EXPERIENCE

MORSE Corp.

Jan 2022 - Jun 2022

Software Engineer - Python, Terraform

Cambridge, MA

- Assisted in creating a form for members of the Air Force to submit feedback about MORSE software utilizing serverless technologies like AWS Lambda, API Gateway, and RDS.
- Engineered the entire backend stack of the feedback form by myself on AWS via Terraform.
- Rolled out custom authentication methods for members of the military using CAC Identification Cards.
- Maintained and improved a project to deliver accurate weather data to members of the military dropping payloads out of airplanes

Poloniex

Jul 2021 - Jan 2022

Wallets Engineer - Java, Python

Boston, MA (remote, part-time)

- Initiated creating a suite of monitoring tools for various problems plaguing the rest of the wallets team
- Improved and debugged existing Java code interacting with complex blockchains (Bitcoin, Ethereum, etc.)

Poloniex

Jan 2021 – Jun 2021

Security Engineer Co-Op - Python, CloudFormation

Boston, MA (remote)

- Created tools in Python to review permissions for OneLogin, Cloudflare, and 1Password utilizing each service's API
- Migrated the Cold Storage Custody API from Flask to AWS Lambdas
- Reviewed code from other members of the security team
- Created AWS Lambdas for various projects using AWS CloudFormation templates
- Interviewed candidates for future co-ops and full time positions

PERSONAL PROJECTS

NUCoin Ethereum, JavaScript, Solidity – <https://github.com/cbrnrd/NUCoin>

Aug 2020

- Designed an Ethereum token to replace Northeastern University's "Husky Dollars" and meal swipe programs, enabling students to trade NUCoin, similar to cryptocurrency

Kumo Java, JavaFX – <https://github.com/cbrnrd/Kumo>

Nov 2018 – Dec 2020

- Created and briefly sold a cross-platform remote administration service for IT administrators
- Designed multiple menus within a single and easy-to-use GUI built with the JavaFX framework