

Nicholas Chen

Boston, MA | chen.nich@northeastern.edu | 6505440553 | linkedin.com/in/nckchen | nckchen.dev

Availability: May - December 2026

EDUCATION

Northeastern University | Khoury College of Computer Science | Dean's List **May 2027**
Candidate for Bachelors of Science in Cybersecurity | Minor in Law and Public Policy *Boston, MA*
Relevant Courses: Discrete Structures, Algorithms and Data Structures, Software Engineering, **GPA: 3.70**
Computer Systems, Object Oriented Design, Computer Networks, Systems Security, Cybersecurity Capstone
Certifications: ISC2 Certified in Cybersecurity (CC)

SKILLS

Languages: Java, JavaScript, TypeScript, C, Python, Golang, HTML, Tailwind/CSS, Assembly, SQL, Bash
Cybersecurity Tools: Linux, BurpSuite, MetaSploit, IDA Pro, WireShark, NMap, Splunk, Snort, PowerBI
Developer Tools: ReactJS, NodeJS, AWS (RDS, DynamoDB, S3, IAM, Cognito), PostgreSQL, MongoDB, Supabase
Leadership/Extracurricular: FirstByte (**President**), The Ortelian Society (**Vice President**),
Code4Community (**Software Developer, Jumpstart Mentor**), NEU CTF Club (**Top 3 @ SeaTF, 8th @ BigCTF**),
HackBeanPot (**Honorable Mention for Best Overall Project**), Big Brother Big Sisters of Eastern Mass (**Mentor**)

EXPERIENCE

Undergraduate Research Assistant **Jan 2026 – Present**
Cybersecurity and Privacy Institute at Northeastern University | Mon(IOT)r Group *Boston, MA*

- Utilize Wireshark to analyze transmissions from industry-standard IoT smart speaker devices
- Correlate interactions and non-interactions with IoT devices to transmissions to study privacy implications

Cybersecurity and Technology Audit Co-Op **Jul 2025 – Dec 2025**
Liberty Mutual Insurance *Boston, MA*

- Audited **enterprise-wide** cyber policies against state/international compliance (NYDFS, BMA) across **4** key SBUs
- Evaluated **4** SDLC/DevOps controls, **8** IAM configurations in PowerBI, Aravo, Archer; led **5** client evidence requests
- Led **3** CI Initiatives, developed **4** GPT assistants for enhancing audit processes while maintaining data privacy

Full Stack Software Engineer **May 2025 – Present**
Code4Community *Boston, MA*

- Built NestJS/Postgres/TypeORM backend, TypeScript/React frontend, Jest endpoint tests, led **2** research spikes
- Implemented route authentication, RBAC for **3** roles for recruitment portal used by **3+** subteams, **70+** members
- Led TypeScript/React workshop for **50+** underclassmen, built backend for **9-week** project-based curriculum

President **Sep 2024 – Present**
FirstByte *Boston, MA*

- Lead **5** teams, **10** club leads, **3** Boston youth org partners; Drove **2x** increase in partnerships, **20+** new members
- Built and taught **4+** **1-hr** CS workshops on web dev, block-based programming, etc. for **40+** high school students
- Created **3-day** full-stack app curriculum and presented live demo to **30+** students at **university-wide** hackathon

PROJECTS

Excel/CSV Anonymizer - scrambler | *Python, OpenPyXL, pandas, Faker, Colorama* **Oct 2025**

- Compliance-friendly data anonymizer of CSV/Excel and clipboard input, preserving data relationships via pandas
- Implemented auto-detection for 10+ sensitive data types (SSN, PII, financial) using regex patterns and Faker library
- User-first CLI tool with Colorama styling, seed reproducibility, JSON rule usage, OpenPyXL excel sheet building

Symmetric Cipher Encryptor | *Python* **Jan 2025**

- Command-line encryption tool with Vigenère and Caesar(ROT) cipher implementation, supporting extended ASCII
- Secure input validation system with completed error handling and key range verification for attack prevention
- Integrated cryptanalysis functionality with brute-force attack capabilities for penetration testing scenarios

Mini Shell in C | *C, Linux* **Oct 2024**

- Mock Linux shell with command execution, built-in commands (cd, help, prev, source), and argument parsing
- Implemented I/O redirection and inter-process communication using pipes for command chaining and data flow
- Built tokenization engine and process management system using fork/exec for concurrent command execution

Digital Road Trip Planner - throwapin.com | *TypeScript, React, Tailwind, Three.js, Supabase* **Feb 2025**

- NextJS, React, Tailwind, and Three.js frontend, used geospatial data with Leaflet.js, GeoJSON, OpenStreetMaps
- Integrated Google Places API, Directions API, and OAuth to build user-authenticated POI itineraries via Supabase
- Received Honorable Mention for Best Overall Project at 36-hour Hackathon against 100+ contestants, won a mug

INTERESTS/HOBBIES

Teaching, Philosophy, Investing, Fishing, Fingerstyle Guitar, Thrifting, Snowboarding, The 1975, Ping Pong