

# Nicholas Chen

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## EDUCATION

**Northeastern University | Khoury College of Computer Science** **Sep 2023 – May 2027**  
*Candidate for B.S. in Cybersecurity | Minor in Law and Public Policy | Dean's List* *Boston, MA*  
**Relevant Courses:** Discrete Structures, Theory of Computation, Algorithms and Data Structures, **GPA: 3.70**  
Foundations of Cybersecurity, Systems Security, Computer Systems, Object Oriented Design, CYB102  
**Certifications:** ISC2 Certified in Cybersecurity (CC)

## SKILLS

**Languages:** Java, JavaScript, TypeScript, C, Python, Golang, Swift, HTML, Tailwind/CSS, Assembly, SQL, Bash  
**Databases/Cloud:** AWS (RDS, DynamoDB, S3, IAM, Cognito), PostgreSQL, MongoDB, Supabase  
**Frameworks/Libraries:** React, NodeJS, NextJS, NestJS, Prisma, TypeORM, Jest  
**Cybersecurity Tools:** Linux, BurpSuite, MetaSploit, IDA Pro, WireShark, NMap, Splunk, Snort, PowerBI  
**Developer Tools:** Git, REST APIs, Agile/Scrum, Microsoft Office  
**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

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

- Audited **17** enterprise security 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, built backend for **9-week** project-based curriculum used by **50+** underclassmen

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

- Lead **5** subteams, **3** Boston youth org partners, drove **2x** increase in partnerships, **20+** new members, full rebrand
- Built and taught **1-hr** curricula for beginner web deve, block-based programming to **40+** high school students
- Created **3-day** full-stack app curriculum and presented live full-stack 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

**Online Barber Store/Gallery - dreamstore** | *React, TypeScript, NextJS, Supabase, Stripe API* **May 2025**

- Full stack e-commerce platform with Stripe-integrated customer view and Supabase Auth-secured admin portal
- Implemented Supabase authentication, buckets, and tables for secure product and gallery image management
- Built persistent shopping cart with Zustand state management and real-time stock validation during checkout

**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