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, Swift, HTML, Tailwind/CSS, Assembly, SQL, Bash
Tools/Frameworks: React, NodeJS, NextJS, NestJS, AWS(RDS, Cognito), MongoDB, Supabase, Prisma
TypeORM, PostgreSQL, Microsoft Office, REST APIs, Agile
Cybersecurity Tools: Linux, BurpSuite, MetaSploit, IDA Pro, WireShark, NMap, Snort, PowerBI, Archer GRC
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 – Present
Liberty Mutual Insurance   *Boston, MA*
- Audit **17** enterprise security policies for state, international compliance across **4** key SBUs, analyzed **2** YoY gaps
- Evaluated **4** SDLC/DevOps controls, **8** IAM configurations in PowerBI, Aravo, Archer; led **5** client evidence requests
- Led **CI**, developed an AI agent that audits client communication lists, updated **5+** onboarding IAM procedures

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 auth, RBAC for **3** roles for org-wide recruitment portal used by **3+** subteams, **70+** members
- Lead 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, created **2x** increase in partnerships, **20+** new members, full rebrand
- Built and taught **1-hr** curricula for beginner web dev and block-based programming to **40+** high school students
- Founded full-stack web dev curriculum, presented live with demo to **30+** students at a university-wide hackathon

PROJECTS

Excel/CSV Anonymizer - scrambler | *Python, OpenPyXL, pandas, Faker, Colorama*   Oct 2025
- Anonymizes sensitive data across CSV/Excel and clipboard input while 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

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

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

INTERESTS/HOBBIES

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