

Nicholas Chen

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EDUCATION

Northeastern University Khoury College of Computer Science <i>Candidate for B.S. in Cybersecurity Minor in Law and Public Policy Dean's List</i>	Sep 2023 – May 2027 <i>Boston, MA</i>
Relevant Courses: Discrete Structures, Theory of Computation, Algorithms and Data Structures, Foundations of Cybersecurity, Systems Security, Computer Systems, Object Oriented Design, CYB102	GPA: 3.70
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 <i>Liberty Mutual Insurance</i>	Jul 2025 – Dec 2025 <i>Boston, MA</i>
• 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 <i>Code4Community</i>	May 2025 – Present <i>Boston, MA</i>
• 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 <i>FirstByte</i>	Sep 2024 – Present <i>Boston, MA</i>
• 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 <i>Python, OpenPyXL, pandas, Faker, Colorama</i>	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 <i>Python</i>	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 <i>C, Linux</i>	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 <i>React, TypeScript, NextJS, Supabase, Stripe API</i>	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 <i>TypeScript, React, Tailwind, Three.js, Supabase</i>	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