

# Nicholas Chen

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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
<b>Relevant Courses:</b> Discrete Structures, Algorithms and Data Structures, Software Engineering, Computer Systems, Object Oriented Design, Computer Networks, Systems Security, Cybersecurity Capstone	<b>GPA: 3.70</b>
Certifications: ISC2 Certified in Cybersecurity (CC)	

## SKILLS

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

## EXPERIENCE

<b>Undergraduate Research Assistant</b>	Jan 2026 – Present
<i>Cybersecurity and Privacy Institute at Northeastern University   Mon(IOT)r Group</i>	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	
<b>Cybersecurity and Technology Audit Co-Op</b>	Jul 2025 – Dec 2025
<i>Liberty Mutual Insurance</i>	Boston, MA
• Audited <b>enterprise-wide</b> 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	
<b>Full Stack Software Engineer</b>	May 2025 – Present
<i>Code4Community</i>	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	
<b>President</b>	Sep 2024 – Present
<i>FirstByte</i>	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 <b>university-wide</b> hackathon	

## PROJECTS

<b>Excel/CSV Anonymizer - scrambler</b>   <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	
<b>Symmetric Cipher Encryptor</b>   <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	
<b>Mini Shell in C</b>   <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	
<b>Digital Road Trip Planner - throwapin.com</b>   <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