Ross Champlin

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EDUCATION

Binghamton University, SUNY, Thomas J. Watson College of Engineering and Applied Science
Bachelor of Science in Computer Science *Expected May 2029*
GPA: 3.91 cumulative | 4.0 major
Relevant Coursework: Programming & Hardware Fundamentals (MIPS32 Assembly, Digital Logic), Programming with Objects & Data Structures (Java), Architecture from a Programmer's Perspective (x86 Assembly & C, in progress), Calculus II, Probability & Statistics, Linear Algebra (in progress)

Webster Schroeder High School, *Regents with Distinction, Summa Cum Laude* | GPA: 96.47/100 *June 2025*

TECHNICAL SKILLS

Languages: Java, Python, C, x86 Assembly (AT&T), MIPS Assembly, R, CSS
Frameworks & Libraries: React, Next.js, Node.js, Tailwind CSS, Astro, FastMCP
Backend & Cloud: PostgreSQL, Supabase, Vercel, GitHub, GitHub Actions
Security: Row-Level Security, Access Control, Input Sanitization, Dependency Auditing, API Reverse Engineering
Tools: Visual Studio Code, IntelliJ IDEA, Vim, RStudio, Cursor, Google Antigravity, Claude Code, OpenAI Codex, Roblox Studio

PROJECT EXPERIENCE

NailsByGabs: Booking Platform, *Full-Stack Developer* *June 2026 - Present*
- Built and maintain a custom appointment platform (nailsbygabs.org) for a solo nail artist using Next.js, TypeScript, Supabase, and PostgreSQL, with week/month calendars, owner slot management, Google Calendar sync, and automated email reminders
- Secured user data with row-level security on every table and server-side PostgreSQL functions for booking and cancellation, preventing double-booked slots and enforcing per-client limits
- Ran a security review: patched npm advisories (including a critical Next.js DoS), escaped user input in emails to block HTML injection, added Cloudflare Turnstile bot protection, and moved secrets to git-ignored environment variables
- Wrote an automated attack script that tests the site as a visitor, client, and member and fails on any newly exposed data; added CI (lint, type-check, build) with GitHub Actions

BingMCP: AI Campus Assistant, *Developer, HackBU 2026* *March 2026*
- Reverse-engineered undocumented Binghamton data sources (buses, laundry, dining, gym, library, events) using Chrome DevTools network analysis to give an AI assistant live campus data through 7 Model Context Protocol tools
- Helped design a Python MCP server (FastMCP, asyncio, httpx) with per-source caching and consistent error handling so a failing source never breaks the assistant's answers
- Collaborated on a 3-person team over one weekend on a Gemini-powered Next.js chat assistant and live dashboard personalized to each student's dorm, dining hall, and dietary needs

WORK EXPERIENCE

Binghamton Recreation, *Intramural Sports Official* *September 2026 - Present*
- Officiate dozens of dodgeball and basketball games in 3-4 hour shifts, making real-time rule calls to keep games fair and safe; completed league officiating training and expanding to soccer, volleyball, and softball

Webster Parks and Recreation, *Summer Camp Counselor* *June 2023 - August 2026*
- Led engaging activities for K-5th-grade youth; CPR and First Aid certified

Webster Central School District, *Junior Site Assistant* *November 2024 - Present*
- Organize crafts and gym games for K-5th-grade students in an after-school program

LEADERSHIP, VOLUNTEERING & ACHIEVEMENTS

Varsity Athletics, *Captain, Scholar Athlete* *September 2021 - June 2025*
- Soccer: starting centerback, 2nd Team All County. Lacrosse: starting defenseman who helped lead the team to its first winning season in 7 years; coached youth camps in both sports

National Honor Society & Tri-M Music Honor Society, *Member* *April 2024 - June 2025*
- Selected for academics, service, and musical achievement; Music Achievement Award; performed with the Jazz Ensemble at the Rochester International Jazz Festival

Community Service, *Volunteer* *September 2013 - Present*
- Best Buddies, Webster Schroeder Unified Bowling, Foodlink food sorting, NHS drives, Empire State Games, and Cherry Ridge Nursing Home game setup