CASPER MIECZYSLAW BIEN

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EDUCATION

Northern Illinois University (August 2026 – May 2028, Expected)
Bachelor of Science, Computer Science, Software Development | GPA: 4.0

William Rainey Harper College (June 2025 – July 2026)
Associate of Science, Focus: Computer Science | GPA: 3.86 | Dean's List and President's List

Relevant Coursework: Computer Science I & II (C++), C and UNIX, Database Systems, Discrete Math, Data Structures and Algorithms (in progress), Network Programming (in progress)

TECHNICAL SKILLS

Languages: C++, C, Python, SQL
Web & Backend: FastAPI, Next.js, PostgreSQL, PostGIS, REST APIs, passkey (WebAuthn) authentication, LLM API integration
DevOps & Tools: Docker Compose, GitHub Actions CI, DigitalOcean, Cloudflare (Tunnel, Access, R2), Linux servers, Git, SQL Server
Embedded & Systems: ESP32 firmware, I2C sensor drivers, cooperative task scheduling, concurrency, UNIX/Linux, network programming
Security & Analysis: MITRE ATT&CK, Cyber Kill Chain, NIST 800-61, Splunk (SPL), CrowdStrike Falcon, network traffic and log analysis

PROJECTS

Chi Rave (chirave.com) | Python, FastAPI, Next.js, PostgreSQL/PostGIS, Docker
- Founded and solo-built a production web app that consolidates Chicago dance-music events from promoter Instagram accounts into one feed, map, and artist directory; launched October 2026 with 79 upcoming events
- Built an ingestion pipeline on the Instagram Graph API that uses an LLM to extract event details from flyers and classify artists by genre, with a review queue before anything publishes
- Deployed to a DigitalOcean server behind Cloudflare Tunnel and Access with GitHub Actions CI, scripted deploy and rollback, nightly encrypted backups to Cloudflare R2, and uptime alerts
- Added passkey and email-code accounts, a Friends system with privacy controls, and personalized event recommendations; a pre-launch security audit found and closed a flaw that let public submissions unpublish events

ESP32 Telemetry Node | C++, ESP32, I2C, Embedded Systems
- Brought up firmware on real hardware reading a BME280 sensor over I2C through a polymorphic driver layer, so new sensor types drop in without touching scheduling or transport code
- Building a cooperative task scheduler for concurrent sampling and telemetry on a single-core MCU without an RTOS

Monte Carlo Options Pricing Engine | C++
- Built a simulation engine from scratch and validated pricing output against the closed-form Black-Scholes model
- Applied antithetic variates as a variance-reduction technique, cutting simulation variance approximately 24%

Veteran Resource Referral Tracker | SQL Server, T-SQL
- Designed a ten-table normalized (3NF) SQL Server database with ER diagrams, views, stored procedures, and constraints

WORK EXPERIENCE

United States Army Reserve
Cyber Threat Intelligence Analyst (May 2025 – Present)
- Develop and validate indicators of compromise for defensive cyber operations
- Map adversary TTPs to MITRE ATT&CK, translating raw reporting into detection and response guidance for operators
- Built reporting workflows that reduced turnaround time on recurring intelligence products

United States Army
Signals Intelligence Analyst (July 2021 – May 2025)
- Analyzed foreign communication signals and network traffic with technical collection tools in a 24/7 environment
- Wrote time-critical technical products and briefed complex findings to non-technical senior leaders

Allegiant Vets | Remote
Software Engineering Intern (November 2024 – March 2025)
- Completed a DoD SkillBridge software engineering program during active-duty transition: Python, Git, and code review

2 Wheel Fabrication | Remote
Social Media Manager, Volunteer (August 2026 – Present)
- Run Facebook, Instagram, and Google Business Profile for a veteran-owned custom motorcycle shop