

NATALIA WILSON

Software Engineer

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Recent Computer Engineering graduate with a Minor in Criminal Justice and hands-on experience in software development, embedded systems, and autonomous systems research. Skilled in full-stack web tools, data analysis, and mission-critical drone applications. Seeking impactful roles in software engineering, data analysis, or cybersecurity.

PROFESSIONAL EXPERIENCE

Autonomous Systems Developer Co-op (Aug 2024 - Dec 2024)

- Designed an admin web portal to configure drone parameters dynamically, improving usability and data efficiency.
- Streamlined backend data handling to reduce human intervention and support autonomous drone testing.

MHA Nation Drone Project Contributor (Sep 2024)

- Assisted in drone-based medical delivery for rural communities.
- Performed flight compliance checks and post-mission data analysis for mission optimization.

EDUCATION

Northeastern University, Boston, MA (2021 - 2025)

Bachelor of Science in Computer Engineering, Minor in Criminal Justice.

Extracurriculars: Society of Women Engineers, Game Development Club.

ENGINEERING PROJECTS

Sudoku Puzzle Solver - C++

- Developed a backtracking algorithm to solve Sudoku puzzles from text files efficiently.

ECG Signal Filtering and Analysis - MATLAB

- Built and tested analog filters for ECG data, digitized signals, and analyzed patterns in MATLAB.

CTF Cybersecurity Challenge - Linux, SQLite3

- Identified vulnerabilities using SQL injection and static analysis to exploit a C-based system.

SKILLS

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|--------------|--------------|-----------|
| • Python | • SolidWorks | • AutoCAD |
| • SQL | • MySQL | • MATLAB |
| • C++ | • Linux | • React |
| • JavaScript | • PSPICE | • Arduino |