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Plano, IL 60545

# JACOB WELSH

## ACADEMIC PROJECTS

### Online Karaoke Machine, NIU - 2023

- Developed an engaging karaoke machine as a final project
- Showcased HTML and SQL skills
- Interacted with a database to perform CRUD operations (Create, Read, Update, Delete) on data.

### E-Commerce Product System, NIU - 2024

- Collaborated with a team of four to develop an e-commerce platform for an autoparts company.
- Designed and implemented a system allowing customers to browse products, place orders, and complete payments online

## EDUCATION

### Bachelor of Science: Computer Science

Emphasis in Enterprise Software

Northern Illinois University (NIU), DeKalb, IL

August 2021 – May 2025

GPA: 3.8/4.0

### Master of Science: Cybersecurity

Northern Illinois University (NIU), DeKalb, IL

Starting August 2025

## WORK HISTORY

### Technical Intern – TKO Home Services

Summers 2022-2024

- Developed and maintained a scheduling spreadsheet to optimize technician routes (Excel + logic formulas/scripts)
- Helped evaluate software tools to streamline customer invoicing or appointments
- Assisted with basic website updates or setup of social media presence to improve online visibility
- Digitized paper records to support future database implementation

## AWARDS/HONORS

University Honors Program, August 2021 – May 2025

NIU Dean's List Award, Fall 2021

NIU Dean's List Award, Spring 2022

NIU Dean's List Award, Spring 2024

NIU Dean's List Award, Spring 2025

## SUMMARY

Aspiring cybersecurity professional with a strong foundation in computer science and a passion for safeguarding digital infrastructure. Skilled in C++, Python, Java, and database technologies with proven experience developing secure applications. Recognized for analytical thinking, attention to detail, and a commitment to excellence. Completed a B.S. in Computer Science with University Honors.

## LANGUAGES

- C++
- Python
- Java
- COBOL
- IBM Assembler Language
- SQL
- PHP

## SKILLS

- Organization
- Multitasking
- Attention to Detail
- Problem Solving
- Team Collaboration
- Analytical Thinking
- Responsibility
- Dependability