EMILIA MICHALEK

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EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UofI)   **Graduation: May 2026**
Bachelor of Science in Computer Science   GPA: 4.00/4.00
Relevant Coursework: Numerical Methods(Python), Systems Programming(C), Database Systems(MYSQL), Probability & Statistics for CS, Ethical and Professional Conduct, Game Development

OAKTON COMMUNITY COLLEGE, DES PLAINES, IL   **Aug 2022 - May 2024**
Engineering Pathways Program Transfer   GPA: 3.69/4.00
Relevant Coursework: C++ Computer Science I, C++ Data Structures, C++ Objects & Algorithms, Python Computer Science I, Computer Architecture & Organization, Discrete Mathematics

EXPERIENCE

SOFTWARE ENGINEERING INTERN AT MOTOROLA SOLUTIONS, RESEARCH PARK   **Mar 2025 – Current**
Ensuring quality user functionality of a vital site used by Motorola Solutions Customers
- Developing and implementing user-requested features for the critical RadioCentral Programming web application, enhancing user functionality and experience for Motorola Solutions customers
- Facilitating cross-functional communication within a remotely dispersed team to clarify requirements and present implemented features

COURSE ASSISTANT FOR CS 211/210 (UofI)   **Jan 2025 – May 2025**
Weekly Assignment Grader for Ethical and Professional Conduct
- Ensured comprehension and application of core concepts in student papers
- Giving comprehensive feedback on strengths and weaknesses of essay structure and concept understanding

GEARUP RESEARCH PROGRAM (UofI)   **Jun 2024 – Jan 2025**
Detecting Spoofing and Jamming on Android Devices
- Analyzed data collected using existing tools and applications to aid in creating comprehensive application to detect spoofing & jamming using only limited sensors available on Android devices
- Took advantage of Doppler shift's effect on signal waves sent from satellite to aid in creating alternative solution to detecting spoofing and jamming without requiring specialized equipment
- Collaborated and worked with small team to research, develop, and/or organize tools and software necessary to test theories

PROJECTS

STOCK INVESTMENT WEB APPLICATION   **Jun 2024 – Jul 2024**
- Collaborated with team of four classmates to create functional web application capable of pulling live stock prices from yfinance API as well as utilizing MySQL back end to organize and access user account and portfolio information
- Developed code and queries in MySQL, Python (Flask), HTML, and CSS

RSA AND HUFFMAN ENCRYPTION ALGORITHMS (C++)   **Nov 2022 – Dec 2023**

LADERSHIP AND ACTIVITIES

AIR FORCE ROTC PARTICIPANT (UofI)   **Aug 2024 – Dec 2024**
- Coordinated with team of cadets to complete tasks with efficiency, cohesion, and precision
- Cultivated foundational skills in leadership, discipline, and strategic decision-making

SKILLS

TECHNICAL: Python, C++, Java, MySQL, JavaScript, HTML, CSS
LANGUAGES: English (Fluent), Polish (Fluent)