EMILIA MICHALEK

773-808-0829 | emich3@illinois.edu | linkedin.com/in/emilia-michalek | emiliamichalek.github.io

EDUCATION

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN (UofI)　　　　　　　**Graduation: May 2027**
Bachelor of Science in Computer Science　　　　　　　　　　　　　　　GPA: 4.00/4.00
Master of Computer Science (BS–MCS Combined Program)
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**
Creating production-quality user-requested functionality for a vital Web Application used by MSI Customers
- Developed and implemented user-requested features for the critical RadioCentral Programming web application, allowing thousands of users to preview images and auto-fill radio IDs much quicker and more intuitively, significantly reducing clicks and improving user experience.
- Collaborated with a remotely dispersed team (Krakow, Champaign, Schaumburg, Chicago) to clarify requirements, deliver production-quality code adhering to SonarQube standards, and present features, ensuring comprehensive Jasmine test coverage

COURSE ASSISTANT FOR CS 211/210 (UofI)　　　　　　　　　　　　　**Jan 2025 – May 2025**
Weekly Assignment Grader for Ethical and Professional Conduct
- Ensured understanding and application of core concepts in 20-25 student papers a week
- Gave 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 by existing tools and applications to inform the development of a comprehensive application for detecting 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 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 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**

LEADERSHIP 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++, C, Java, MySQL, JavaScript, Typescript, HTML, CSS
LANGUAGES: English (Fluent), Polish (Fluent)