Andrew Van Hoveln

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EDUCATION
Illinois State University
- **Degree:** Bachelor of Science – Computer Science (August 2020 - December 2023)
- **Cumulative GPA**: 4.0
- **Relevant coursework:** Data Structures and Algorithms, Parallel Processing, Principles of Operating Systems, Theory of Computation, Principles of Software Engineering, Artificial Intelligence, Database Processing, Systems Development, Networking and Distributed Systems, Computer Hardware, Concepts of Programming Languages, and Computer Graphics

WORK EXPERIENCE
BITCO Insurance Companies – **IT Infrastructure Intern** (May – August of 2022 & 2023)
- Evaluated a manual business process and utilized Microsoft power tools to automate the workflow.
- Deployed an Azure Function using Python to automate the updating of Palo Alto Firewall External Dynamic Lists.
- Built networking performance monitoring dashboards on the SolarWinds Orion platform.
- Assisted in product evaluation for Cisco Meraki MR46 Access Points and MS350 PoE Switches.
- Adjusted HTML of the helpdesk splash page to go directly through single sign-on upon landing.
- Worked with Senior Network Administrators to operate and support the network.

Illinois State University – **Data Structures Grader** (August 2022 – May 2023)
- Graded coding assignments covering advanced data structures and algorithms in C++.
- Commented corrections and suggestions on student code using the code review extension in Visual Studio Code.
- Debugged student code to find problems and provide meaningful feedback.

Illinois State University Athletics Study Center – **Math Tutor** (August 2021 – May 2022)
- Tutored students in math classes ranging from college algebra to calculus.
- Worked with the students through problem sets to improve their understanding of the material.
- Assisted with exam review to ensure the student was going over relevant materials.

Full-Fill Industries, LLC – **Assembly Line Worker** (June 2019 – December 2021)
- Operated and performed maintenance on machines when they were not working properly.
- Trained incoming employees on different machines.
- Communicated with co-workers to ensure smooth assembly line operation.

PROJECTS
Part-of-speech Tagging and Matrix Operation Calculator – **Full-Stack Web Application**
Link: *https://github.com/AndrewVanHoveln/WebMatrixCalculator*
- Developed a full-stack web application utilizing React for the multi-page frontend.
- Created a backend REST API using Python and Flask to handle requests.
- Integrated part-of-speech tagging functionality using the Viterbi algorithm and training data for text analysis.
- Implemented a matrix calculator that allows the user to multiply, subtract, and add two matrices.

Remind Me Reggie – **Java Reminder Application**
Link: *https://github.com/RSLeone/RemindMeReggie*
- Collaborated with a team to design, develop, and test a feature-rich Java reminder application.
- Created detailed class, use case, and activity diagrams to guide the software development process.
- Performed regression testing extensively using JUnit to ensure bugs were caught early.
- Utilized an agile development methodology to iteratively plan, execute, and evaluate changes to the app, ensuring alignment with evolving project requirements.

TECHNICAL SKILLS
- **Programming Languages:** Java, Python, JavaScript/HTML/CSS, SQL, and C/C++
- **Frameworks and Tools:** Flask, React, Git, Linux, and Windows
- **Cloud:** Azure