David Lyko

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EDUCATION

Binghamton University, SUNY | Watson College of Engineering and Applied Science
Bachelor of Science in Computer Science **Expected December 2023**
Cumulative GPA: 3.63/4.00 | Major GPA: 3.73/4.00

TECHNICAL SKILLS

Languages: C++, Java, C#**,** C, Python, JavaScript, Typescript
Tools and Technologies: AWS, Git, .NET, Spring Web MVC, Flask Web Framework, React, SQL, Linux, Windows
Skills: Machine Learning, Computer Vision, Algorithms, Data Structures, Oral and Written Communication, Web Development

RELEVANT EXPERIENCE

Software Engineer Intern | Amazon **May 2023 - August 2023**
- Automated the recording of seller polls by setting up necessary pipeline infrastructure and creating a dynamic polling dashboard with filtering options, enhancing user accessibility and interaction
- Aggregate data included the count of poll responses, poll impressions and poll stats providing product managers a better way to forecast seller sentiment on Amazon
- Engaged in daily stand up meetings, sprints and worked closely with the client while utilizing agile methodologies
- Leveraged diverse AWS services including Lambda, S3, DynamoDB, Glue, Athena, Quicksight and Kinesis as well as Typescript, Java, Python, and the Spring Web MVC framework

Software Engineer Intern | Staples **May 2022 - August 2022**
- Pioneered the creation and seamless integration of a dynamic collections manager into Staple's remote systems management software enabling users to efficiently create, delete and manage collections, including device additions and removals, while providing access to advanced collection insights
- Reduced amount of time needed to make remote deployments by three minutes with an average of 100 deployments a day
- Employed Agile development methodologies to ensure alignment with client specifications and integration of requested features
- Leveraged a comprehensive tech stack, including .NET framework, C#, XAML, Microsoft System Center Configuration Manager (SCCM), Windows Management Instrumentation Query Language (WQL), asynchronous programming, regular expressions and adhered to the Model-View-ViewModel (MVVM) design pattern

Undergraduate Researcher | Binghamton University **August 2020 - December 2021**
- Collaborated within a team of five researchers to delve into the realm of machine learning, orchestrating the development of a proficient Mahjong-playing robot
- Spearheaded the synthesis of a 12-page comprehensive research report encapsulating intricate facets of code, design, and execution, culminating in the successful manifestation of the robot's capabilities
- Used Python (Keras, TensorFlow, NumPy) to implement robot's computer vision, CoppeliaSim Robotics to simulate the robot's movements, and answer set programming to implement logic

PROJECT EXPERIENCE

Ski Resort Recommending Web Application, Collaborative Project **December 2021 - January 2022**
- Built a web application that recommends ski resorts based on a score taking into account current snow totals, weather conditions, mountain statistics, lift ticket prices, and proximity to user's location
- Utilized HTML, CSS, JavaScript, Flask web framework, beautiful soup library in Python for web scraping, and various APIs to implement the front and back end

Employee Scheduling Application, Personal Project **May 2021 - August 2021**
- Designed and developed an application that generates a schedule for 23 employees at the Thomas P. Morahan Waterfront Park, reducing scheduling time by two hours
- Collaborated closely with the client to ensure all specifications were met and feedback could be readily implemented
- Utilized object-oriented programming techniques, algorithms, text file reading/ writing, exception handling, and a SWING GUI, written entirely in Java

LEADERSHIP EXPERIENCE

Undergraduate Research Peer Mentor | Binghamton University **August 2021 - May 2022**
- Guided a team of five undergraduate researchers in developing a research proposal outlining a solution to a real-world problem
- Assisted professor in weekly lectures, organized team building and learning activities, taught students research techniques, kept attendance records, and guided researchers in weekly team meetings