

Mykhaylo Nelyubov

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EDUCATION

University at Buffalo

Master of Science - Robotics Engineering - 4.0 GPA
Bachelor of Science - Computer Engineering - 3.971 GPA
Minor - Mathematics

Buffalo, NY

Expected May 2024
May 2023

WORK EXPERIENCE

Capital One

Software Engineering Intern

New York, NY

Summer 2022, Summer 2023

- Automated error reporting and corrections on file submissions to save agents and engineers time on manual error reviews by creating a Python Slackbot using AWS Lambda and SNS
- Designed a modular framework for the bot to streamline onboarding more services across the organization
- Enhanced pre-production error detection capabilities by deploying a User Acceptance Testing (UAT) environment for clients and product teams to verify integrity of deliverables

School of Engineering and Applied Sciences IT

Student Assistant

University at Buffalo

Jul 2019 – Present

- Automated monitoring of new update releases for 120 software packages by creating a collection of web scrapers and Microsoft Teams integration to notify administrators of updates
- Streamlined system configuration, updates, and diagnostics by automating 60 routine tasks with PowerShell to mitigate network security risks, update systems, and diagnose common sources of issues
- Designed and developed a robust web server, integrated with a SQL database, to securely store encryption recovery keys, resolving multiple challenges inherited from the previous system.
- Increased team efficiency through custom spreadsheets that allow for better workflow tracking on patch deployment and user communication
- Trained department staff on use of newly developed scripts and version control infrastructure for process automation to ensure that operations continue to run smoothly and efficiently

PROJECTS

Climate Control Failure Watchdog

Aug 2023

- Implemented an alert system to notify users in real-time when temperatures exceeded safe thresholds, empowering users to take immediate corrective actions in the event of cooling system failures

UB Hacking 2022 - Urgent Care Volunteer Scheduler

Nov 2022

- Automated scheduling of 100 monthly urgent care facility volunteer appointments to reduce manual workload on facility coordinators
- Utilized Google Forms and the Google Sheets API to ingest availability schedules of volunteers
- Tailored scheduling algorithm to prioritize filling high demand time slots for each urgent care facility
- Published finalized schedules for access by volunteers at each facility using the Python Google Calendar API

Convolutional Neural Network Optimization

Nov 2022 – Jan 2023

- Optimized hyperparameters of models through a heuristic search of a discretized hyperparameter space, achieving 93.9% accuracy on the Fashion MNIST Dataset, 99% accuracy on a UB SonicASL dataset

2048

Apr 2022

- Implemented the game 2048 in ARM Assembly on a Tiva C microcontroller
- Interfaced over UART to allow users to play from their desktop computer over a COM connection

SKILLS

Programming Languages: Python, PowerShell, JavaScript, C/C++, Scala, Java, ARM, Verilog

Frameworks/API: AWS, ROS, Tensorflow, Pytorch, Node.js, Google Sheets API, Mbed OS, Manim, Selenium

Other Technical Skills: Multisim, Autodesk Inventor, 3D Printing

Languages: English, Ukrainian (native), Russian (native)