RORY NGUYEN

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WORK ELIGIBILITY

Authorized to work for any US employer

EDUCATION

Northwestern University, Evanston, IL — anticipated June 2023
Expected Bachelor of Science in Computer Science, Minor in Cognitive Science
Cumulative GPA: 3.65/4.00
Relevant Courses: Data Structures and Algorithms, Design & Analysis of Algorithms, Operating Systems, Digital Forensics & Incident Response, Introduction to Networking, Distributed Systems, Wireless Protocols for the Internet of Things, Intro to Computer Security

SKILLS

Computer: Python, Kotlin, C++, C, Go, React, JavaScript, GraphQL, protobuf, Git, Bash, Java, HTML/CSS, R, MATLAB, Linux, Unix
Language: English, Vietnamese, Spanish

WORK EXPERIENCE

Expedia Group, Chicago, IL — June 2022 – August 2022
Software Development Engineering Intern
- Worked as a Full Stack Developer in the Multi-Item Trips API team which allows customers to book customizable travel packages
- Implemented homepage popup card on Android mobile app with REST APIs as part of $3M US marketing campaign
- Expanded AB testing of Machine Learning enabled travel package recommendation service from 2 to 12 pre-set destinations using Spring Boot and Kotlin
- Developed per traveller price calculation display model using protobuf, React, and GraphQL

Masonite, West Chicago, IL — September 2021 – December 2021
Software Engineering Intern
- Developed cross-platform firmware update application in Python for main controller and sensor hub of IoT-enabled smart door
- Implemented CAN debugging tool in Python to translate raw CAN message frames to human-readable output using dictionary lookups and regular expressions
- Tested and validated wireless security, BLE, MQTT, and Wi-Fi protocols for iOS and Android consumer and manufacturing apps
- Debugged real-time operating systems and embedded applications on PIC and dsPIC microcontrollers using MPLAB and JLink
- Collaborated in an Agile software development environment using Jira

Infosys Limited, Bangalore, India — June 2021 – August 2021
InStep Technology Intern
- Developed an interview question generator model for the Infosys Interview Platform
- Programmed a keyword extractor using SpaCy's natural language parser and StackOverflow's tagging system to determine adjacent topics from the applicant's resume in Python and Google Colab.
- Designed a knowledge graph using neo4j Cypher and Aura to query relationships between keywords
- Built an interview question web scraper and categorized questions by parent topic and related subtopics in a dictionary

eo LLC, Evanston, IL — October 2019 – December 2020
Head of Data Analytics and Software
- Programmed Python script to generate weekly financial revenue and refund reports
- Extracted revenue and GPS geospatial data from back-end website through web-scrapping and data mining
- Integrated ArcGIS and Python to automate mapping and visualize geospatial data points in real-time
- Developed an optimization algorithm and statistical analyses to identify the most ideal bike rebalancing locations
- Established novel refund structure for a student start-up and initiated new refund error tracking system

PROJECTS

Digital Forensics and Incident Response, Northwestern University — March 2021 – June 2021
- Performed evidence collection, live analysis, full disk analysis, and log analysis on Linux and Windows systems, firewalls, and artifacts using forensics tools such as Registry Ripper, FTKImager, and volatility
- Conducted and created detailed mock incident response plans, reports, and timelines to investigate infiltration, privilege escalation, lateral movement, data collection, data exfiltration, and system remediation
- Analysed malware using bintext analysis, Process Explorer, Process Monitor, and MD5 hash analysis

IEEE Hardware Team, Northwestern University — January 2021 – April 2021
- Created a semi-autonomous toy car with object detection and lane navigation
- Programmed wifi-enabled driving control script with live webcam viewer on Raspberry Pi using Python
- Utilized TensorFlow's Object Detection API and transfer learning to train a machine learning model
- Optimized machine learning model for low-power IoT devices using Google's Coral Edge TPU