

# Vishal Kolla

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## EDUCATION

### Purdue University (3.73/4.0)

*Bachelor of Science in Computer Science, Minor in Business Management and Psychology  
Tracks in Machine Learning and Cybersecurity*

West Lafayette, IN

Aug. 2019 – May 2023

## EXPERIENCE

### Associate Software Engineer

July 2022 – Present

*Northrop Grumman*

*Bethpage, NY*

- Implemented algorithms for mecanum wheeled movements in code and developed MVP software to control the movement of 4 individual load-bearing mecanum wheeled vehicles at the same time
- Handled frequency control for vehicles and translated controller input to vehicle movement through Py-PS4 library
- Gained funding totalling nearly 10,000 dollars through presentations and demonstrations performed by vehicle
- Implemented functionality into company auto-metrics and SLOC Count repos while updating Jenkins scripts

### SWE Intern

June 2022 – August 2022

*OppFi*

*Chicago, IL*

- Worked on maintaining infrastructure by utilizing terraform and terragrunt
- Set up CI/CD pipelines for our drift detection setup through YAML scripts on GitHub workflows
- Participated in live coding with my team to set up Kubernetes for the company
- Created security and access features through Python platforming tools to securely grant AWS access to users

### Senior Analyst

January 2020 – August 2021

*Dell RSA Division*

*West Lafayette, IN*

- Worked with a team to take down various phishing and brand abuse attacks against major global banking systems
- Managed to become an advanced analyst after completing my qualification and worked against malware attacks
- Worked with and developed Python scripts to automate many of the company's tasks which reduced many of our handled attack times to below 12 hours (industry bar)
- Became a shift manager where I handled giving out tasks to others in my team
- Helped train 20 new interns on tasks and responsibilities

### SDE Intern

June 2018 – August 2018

*TechMojo*

*Northville, MI*

- Shadowed and got training from a software developer
- Worked on Amazon ROKA implementation through RESTful API web services in Java

### Team Leader

December 2020 – May 2023

*SIGAI*

*Northville, MI*

- Handled a group of 8 that worked on introductory python projects
- Taught new recruits the basics of Python/Machine Learning by using active demos and simple assignments

## PROJECTS

### Phishing Detection | *Python, scikit-learn, Streamlit*

February 2023 – March 2023

- Web app to differentiate phishing and legitimate URLs using a Random Forest classifier using ADA Boost
- Classifier achieved accuracy of over 0.96 during testing
- Implemented web scraping workflow to access features for inputted URLs

### Stock Prediction Program | *Python, TensorFlow*

June 2021 – August 2021

- Utilized LSTMs to forecast 30 days of stock prices for any stock inputted
- Worked by training/validating on 5 years of the stock's previous data
- Implemented sentiment analysis aspect into the program where I find how the market generally views the stock

### Memory Game | *Java*

December 2018 – February 2019

- Simulated a memory game using Java with multiple levels of difficulty for players with different levels of expertise

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, SQL, MongoDB, JavaScript

**Other:** TensorFlow, scikit-learn, Kubernetes, Docker, Jenkins, Terraform