Vishal Kolla

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EDUCATION

Purdue University (3.73/4.0)   West Lafayette, IN
Bachelor of Science in Computer Science, Minor in Business Management and Psychology   *Aug. 2019 – May 2023*
Tracks in Machine Learning and Cybersecurity

EXPERIENCE

Software Engineer   May 2024 – Present
Stealth Startup   *Remote*
- Full stack developer at a Pre-series A Startup working on a T3 stack
- Integrated hostaways Property Management API to automate booking and requesting properties
- Modified Supabase schema and started moving database to AWS

Associate Software Engineer   July 2023 – 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 totaling 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

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 an 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