

# RICHARD CHARLES ROSS II

## Software Engineer & Mechanical Engineer

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## EXPERIENCE

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### Dropbox

Apr. 2024 - Aug. 2024

*Software Engineer, Vulnerability Management Team*

- Implemented a script to run vulnerability, web, & web application scans via Tenable IO to meet PCI requirements.
- Implemented a vulnerability importer for scans in Tenable IO. This import includes logging for long-term data retention, Jira ticket creation, & alerts for new PCI findings. This implementation included whitelisting for known false positives that had been previously contested.
- Wrote unit tests for the vulnerability import's new functionality, verifying the format of the configuration file & new vulnerability finding alerts.
- Implemented new functions in the team's Tenable IO library for creating, editing, & running web application scans.
- Wrote necessary Bazel and deployment files for the runner & import scripts.
- Gained further experience using Bazel & creating test environments to debug code before merging into production.
- Technologies leveraged on the job included Python, the Python Debugger library, the pyTenable library, the typing library, Bazel, Linux commands, Git, & GitHub.

## PERSONAL PROJECTS

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### Bayern Munich Twitter Bot

[github.com/rcharlesrossii/bayern-munich-bot](https://github.com/rcharlesrossii/bayern-munich-bot)

*Twitter bot live updating users on key events from Bayern Munich matches.*

- Signed up for Twitter developer to use its API & use the Tweepy module to invoke the Twitter API.
- Collaborated with a web scraping developer to utilize a module that pulls soccer match information from livescore.com.
- Communicated with the web scraping developer to review the functionality of his module & create desired features.
- LiveScore module scrapes information from livescore.com to filter soccer match key events in a clean/usable way.
- Iterated through LiveScore data & store key event information in a dictionary to be used for tweeting respective events.
- Each key event has its own Tweet template, allowing each Tweet to be unique following Tweepy's guidelines.
- Utilizing GitHub Actions to automate tweets to be sent out live for all matches in Bayern Munich's schedule.

### Username & Password Creator

[github.com/rcharlesrossii/password\\_project](https://github.com/rcharlesrossii/password_project)

*A program that stores username & password after meeting specific requirements.*

- Implementation of hidden characters using the getpass library, prompting the user to create a username & password.
- User input in the comm& line, having the inputs meet specific requirements.
- Once the user meets the requirements, the user's information is stored in a library & stored as a remembered user.
- First project using Visual Studio Code, setting up IDE, & Python virtual environment.
- Utilization of PEP8 style & Google docstring formatting.

## TECHNICAL SKILLS

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- **Languages:** Python, SQL, YAML, HTML, CSS
- **Frameworks:** JSON, Requests, Python Debugger, pyTenable, typing
- **Software:** Git, GitHub, Visual Studio Code, Bazel, DevTools, Jupyter Notebooks

## EDUCATION

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### University of Wisconsin-Milwaukee

- Bachelor of Science, Mechanical Engineering

Aug. 2014 - May 2019

### Codecademy

- Professional Certification, Data Science (Machine Learning)
- Professional Certification, Computer Science

Jan. 2023 - Jun. 2023

Jan. 2023- Jul. 2023