David Kyle Rivera

240-917-1904 | rivera.davidkyle@gmail.com
https://www.linkedin.com/in/david-kyle-rivera-897824173/
https://github.com/rivera-davidkyle https://rivera-davidkyle.github.io/my-website/

Education

University of Maryland, Baltimore County *Expected 05/2023*

- BS Computer Science, Minor in Music
- GPA: 3.86
- Relevant Coursework: Data Structures, Computer Architecture, Database Management Systems, Operating Systems, Design and Analysis of Algorithms, Software Engineering

Skills

OOP Languages:	Python, C++, C
Frontend:	React.js, HTML, CSS, JavaScript
Backend:	PostgreSQL, Redis, Django Framework, Docker
Project Management:	GitHub, Git, Jira

Work Experience

Atmospheric Lidar Group

Software Engineering Intern *03/2022 - Present*

- Maintain and improve a microservices architecture given loosely defined customer requirements with Django Framework, Redis, Celery, and Docker
- Follow a directive through organized team sprints and a timeline based on given requirements through CI/CD and Github
- Developed an SMTP that periodically reaches out to more than 100 researchers through Celery and Redis
- Developed a download feature that lets users access more than 5000 daily files within each ceilometer site, utilizing Django REST Framework and Redis, with JQuery and Bootstrap used for the frontend

UMBC Events and Conferences Services

Production Technician *08/2021 - 03/2022*

- Provided services for events throughout the university campus and cooperate with event organizers to run conferences smoothly
- Assisted in event setups such as audio reinforcement, stage lighting, video projection, and stage rigging/drapery
- Managed sound system and gave on-site technical support during events

Projects

Unified Ceilometer Network (Unified Ceilometer Networks (ucn-portal.org))

- Store, display, and standardize data from Ceilometer LiDAR data from multiple EPA/NASA sites
- Provide asynchronous tasks through Celery that assist researchers on routine tasks
- Developed through Django, C++, MatLab, and Redis

2022 Portfolio Website (Kyle Rivera (rivera-davidkyle.github.io))

- Provides a single-page application that presents my background, experience, and recent projects
- Designed with different components from various libraries such as Material UI and Bootstrap
- Developed through React.js, deployed through Github Pages

IT Ticketing Website (ALG Helpdesk (ticketingitapp.herokuapp.com))

- Provides a helpdesk portal that assists a user to create, update, or delete a ticket
- Sends a confirmation email that the ticket has been received, and has a login/logout and user registration system
- Developed through Django Framework, deployed through Heroku