

David Kyle Rivera

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<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
Web Development:	React.js, HTML, CSS, Javascript, API Development
Software/Frameworks:	Jira, Git, Docker, Django
Project Development:	Agile Methodologies, CI/CD, Test Driven Development

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 1000 daily files through Django REST Framework, with JQuery and Bootstrap used for the front-end

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 \(ucn-portal.org\)](https://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 \(rivera-davidkyle.github.io\)](https://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 \(ticketingitapp.herokuapp.com\)](https://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
- Designed through the available APIs of Bootstrap 5
- Developed through Django Framework, deployed through Heroku