

# Michael Clark

Research Developer



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Muir, Michigan

[Portfolio](#)

[GitHub](#)

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## About Me

Highly skilled and versatile professional with proven expertise in designing, developing, and deploying robust pipelines and applications in collaboration with scientific staff and end-users.

## Experience



### Research Developer

The University of North Carolina at Chapel Hill is the nation's first public university and continues to pave the way for many fields of research.

September 2019 - Present

- Collaborated with scientific staff and end-users to create applications and processes
  - Grant proposal prototypes
  - Automating established pipelines
  - Creating and extending user interfaces for existing processes
- End-to-end responsibility for designing, developing, and deploying critical applications
- Created hybrid solutions that utilize on-campus resources to balance cloud costs
- Managed and processed large datasets using workload managers
- Packaging platforms for reproducibility by various audiences



### Full Stack Web Developer

DropTrack is a music marketing platform that connects new talent with top talent.

May 2016 - September 2019

- Lead task creation and delegation to 1-2 junior developers
  - Used Github issues to outline tasks
  - Helped by whiteboarding and pseudocoding concepts when

needed

- Implemented site redesign and updated general framework from SSR-only model
  - Improved backend with additions to custom PHP framework such as a packaged router
  - Front end improvements in page load and responsiveness by replacing resource-heavy jQuery functionality with CSS features
- Handled major reactive production issues
  - Upgraded server's PHP version after Facebook started rejecting API requests
  - Flash deprecation that affected by critical libraries

## Education



**Kalamazoo Valley Community College**  
Computer Science Associate of Applied Science  
Fall 2013 - Spring 2015

During my last year of this degree, I participated with the AITP team as a Project manager. My team created a web application for a local non-profit and presented our process at a nationwide competition - ranking 3rd amongst many universities and just a few other community colleges.