Michael Clark

9+ years of web development experience

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EXPERIENCE

University of North Carolina, Chapel Hill, NC
Research Developer — JULY 2019 - PRESENT

Facilitated accessibility to bioinformatics pipelines by integrating complex code repositories into functional web applications.

- Developed with **Next.js + Tailwind CSS**
- Secure uploads for large files (10GB+)
- Deployed to **Kubernetes** via **Docker** containerization.

Assisted researchers in **compute-intensive processing**
- Reduced the turnaround time of HIV statistics reporting by an average of 2 weeks by automating manual processes.

DropTrack, Los Angeles, CA
Full Stack Developer — MAY 2017 - JUNE 2019

Created and delegated tasks to 1-2 junior developers.

Developed new features for external users to promote platform growth, tracking user interactions with Google Analytics.

Implemented site-wide redesign with performance enhancements such as **improving page load times** by adding AJAX to the SSR model.

DropTrack, Los Angeles, CA
Frontend Web Developer — MAY 2016 - MAY 2017

MC3, West Chester, PA
Junior Web Developer — JULY 2015 - APRIL 2016

EDUCATION

Kalamazoo Valley Community College
Computer Programming for Business A.A.S. — 2013 - 2015

SKILLS

Frontend
React | Next.js | Typescript
Tailwind CSS | Material UI
Figma | Three.js | Canvas
Data Visualization

Backend
Google Cloud Platform
Docker | Kubernetes | Rust
Bash | SLURM

Miscellaneous
GitHub Copilot | VSCode
Remote Teamwork

OPEN SOURCE CONTRIBUTIONS

muscle_bio *Ruby gem*
Author. Packaged MUSCLE for use in Ruby.

viral_seq *Ruby gem*
Added a visual dashboard of processed data.

Figtree *Java desktop applet*
Added color-coded table to compare input with output

ACADEMIC PUBLICATIONS

PMID:
33796612, 32663847, 36326446, 37283544