



Nathan Day

Passionate researcher, with a modern skill set and diverse start-up experience. I am looking for the next step in my career, where I can use computer science to better the world.

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EXPERIENCE

Hemoshear Therapeutics : *Data Scientist*

MAY_15 : PRESENT

Work in a R-based statistics group that analyzes, enhances and guides assay design and decisions. I utilize mixed effects modeling, ensemble learning and ggplot2 to deliver concise viz of signal and significance. Focused on building flexible pipelines for routine data analysis. Comfortable with parallel code in the cloud using a remote Linux environment

Hemoshear : *Device Coordinator*

AUG_12 : MAY_15

Team lead who hired, trained, and managed a matrix group that conducted multi-cell 3D tissue experiments designed to improve understanding of the disease mechanisms in vascular, liver, and tumor biology. Built successful internship relationships with UVA and VCU.

Hemoshear : *Device Specialist*

DEC_10 : AUG_12

Improved lab team efficiency with cross-training protocols and cloud based solutions for scheduling (Google Calendars), resourcing (SmartSheet/Jira) and collaborative document storage (Box).

EDUCATION

Cresawn Lab: JMU – *Open-source bacteriophage software*

JAN_09 : MAY_10

Used Python and JQuery in a Linux environment to build stable sequence display features, for Phamator, a mycobacteria phage software analysis tool. Added web-logos for ClustalW protein alignments and Google Maps markers for source location visualization.

Monroe Lab: JMU – *GFP Localization of BAMs in Arabidopsis*

JAN_07 : SEP_07

Designed C-terminal GFP tagged BAM-7/8 in E.coli plasmid vectors, which allowed in vivo nuclear localization via confocal microscopy, supporting evidence for role in transcriptional regulation.

In-silico

R packages

- tidyverse ★★★★★
- shiny ★★★★★
- lmer ★★★★★
- igraph ★★★★★
- caret ★★★★★

Others

- HTML5/CSS3 ★★★★★
- Python ★★★★★
- mysql ★★★★★
- Linux/OSX ★★★★★

In-vitro

Molecular Biology

- Nucleic acids ★★★★★
- Mass Spec ★★★★★
- Auto Imaging ★★★★★

Operations

- Cloud Solutions ★★★★★
- Talent Dev ★★★★★
- EDU Outreach ★★★★★

In-vivo

Sports

- Golf ★★★★★
- Squash ★★★★★
- Kayaking ★★★★★

Health

- Dogs ★★★★★
- Yoga ★★★★★