

MUSA JUNDI

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SKILLS

Front-end: JavaScript (+), React (+), Sass, HTML, Responsive UI
Back-end: Python (+), Node, Java, NoSQL, C++, MySQL

PROJECTS

OTM Dispatch Site & Dashboard *React, Node, Strapi, CSS* otmdispatch.com

A static site built for a logistics and transportation company based in Orlando, FL. It features a mobile-friendly, responsive UI, and is paired to a headless CMS for convenience and security.

Bioinformatics Toolkit *Python, Bash, Slurm* <https://github.com/mujundi/bioinformatics-util>

A collection of scripts and tools developed for a bioinformatics lab at the University of Florida. It includes programs for queueing jobs on the HPC clusters, beginning-to-end pipelines for running tools with many required intermediate steps, and producing simulated datasets.

Xpnsr *React, Redux, Node, Firebase* <https://xpnsr.herokuapp.com/>

An expense-tracking app that includes authentication, persistent data storage, and dynamic expense displays and filtering.

Assembler *C++, OpenMP, ACO* <https://github.com/mujundi/assembler>

Uses a crude ant colony optimization algorithm, an implementation of swarm intelligence, to assemble overlapping substrings into the shortest possible string.

EXPERIENCE

Freelance Remote
Web Developer 2014 - Present

- Developed web apps and tools for small businesses
- Led a small remote team to build a static site and custom dynamic dashboard for a logistics company

Bioinformatics Lab, Dept. of CISE, Univ of FL Gainesville, FL
Researcher Aug 2017 - Aug 2018

- Write programs to produce simulated metagenomic data for various tools we were developing
- Work in the high-performance computing remote cluster environment, and develop scripts to facilitate its use for other lab members
- Seek out and test competing SNP detection tools, including development of protocols and testing methodology for all of the programs

Neural Stem Cell Lab, Dept. of Neurosurgery, UF College of Med. Gainesville, FL
Research Assistant Feb. 2013 - Jan. 2015

- Produced fluorescent and non-fluorescent microscopy images, as well as the editing and analysis of those images
- Handled the post-harvest preparation, sampling, imaging, and chemical analysis of delicate brain and tumor samples
- Trained several research assistants on several microscopy and histology protocols

Dept. of Engineering Education, UF College of Engineering Gainesville, FL
Teaching Assistant (COP2271, C++) Aug 2013 - July 2014

- Held office hours for students who needed in-person help with study, assignments, preparing for exams, etc.
- Implemented unit tests for grading assignments and projects

EDUCATION

University of Florida Gainesville, FL
BA (partial) Biology Jan. 2013 - Dec. 2017

Valencia College Orlando, FL
AA General Studies Aug 2011 - Dec. 2012