

Joseph Michael Gilmore

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Education

Bachelor of Science – Computer Science

Minor – Mathematics

Saint Louis University, St. Louis, MO

May 2020

Selected Course Work:

Machine Learning (Python, scikit-learn, pandas, tensorflow), Data Structures (C++), High-Performance Computing (C++, OpenMP, MPI), Databases (SQL, MongoDB), Object-Oriented Software Design (Java), Operating Systems (C)

Work Experience

Software Engineer Intern - Charter Communications, St. Louis, MO

May 2019 - Present

- Working as part of the Telemetry Development Team to develop software for reporting on enterprise infrastructure utilizing an inhouse framework built on nodeJS, React, and Perl
- Create custom dashboards that analyze and visualize the status of tens of thousands of servers, network devices, and connections

Coding Instructor - GlobalHack, St. Louis, MO

January 2018 - May 2019

- Taught computer science to under served children in North Saint Louis using custom lesson plans to fit the needs of the students

Projects

Pronunciation iOS App

April 2018 – August 2018

- Solo developed an iOS app using Swift to record user input and display spectrogram of native and foreign pronunciation of Spanish vocabulary
- Created formal specifications from user requests and designed RESTful API for simple implementation on multiple platforms

Senior Capstone

August 2019 – Present

- Building a platform for real time visualization, interaction, and analysis of echocardiograms using Flask, HLS, React, and Pytorch
- Working with cardiologist from SLU Hospital to determine requirements and example procedural diagnosis steps to implement using machine learning

Skills

- Programming Languages
 - C, C++, Python, Perl, Java, SQL, Javascript (React)
- Tools and Libraries
 - Git, Linux, Bash, Vim, Windows, Pandas, Numpy, scikit-learn, PyTorch, SQL Server, OpenMP, MPI, RESTful APIs
- Other
 - Formal Logic, Algorithm Analysis, Calculus, Technical Writing, Statistics