

Jason Matthew Ren

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EDUCATION

Washington University in St. Louis

Sophomore Computer Science Student; GPA: 3.22

St. Louis, MO

Aug. 2017 – May 2021 (expected)

- **Notable Coursework:**

- * Web Development
- * Data Structures and Algorithms
- * Rapid Prototyping and Development

Great Valley High School

SAT: 2360

Malvern, PA

Aug. 2013 - June 2017

EXPERIENCE

Institute for Public Health at Washington University

Data Analyst

St. Louis, MO

Aug 2018 - Present

- **Scripting:** Using Python, cleaned, standardized, and merged trauma center visitation data from local St. Louis hospitals with Python's regular expression and CSV reading and writing packages, and created a patient identification system utilizing hash and soundex codes.
- **Data Cleaning:** Wrote scripts in Python using the BeautifulSoup library to clean, re-format, and visualize violent crime incident data from St. Louis County Police.

Lavner Camps and Programs

Technology Instructor and IT Technician

Narberth, PA

May 2018 - Aug. 2018

- **Technology Instructor:** Taught kids aged 7 to 12 the basics of programming with Python and Java.
- **IT Technician:** Prepared computer and device inventory to be distributed to summer camp locations. Wrote scripts to optimize work flow and increase efficiency of team.

PrimBio Research Institute LLC.

Software Intern

Exton, PA

June 2016 - Aug. 2016

- **Python:** Wrote a script in Python that converted data from .fastq filetype to .fasta and subsequently compressed said data using 7zip with the goal of bettering workflow.
- **Data Visualization:** Analyzed and formatted raw cell count data of various bacteria within samples into corresponding taxonomic ranks in Microsoft Excel for customers.
- **Website Development:** Refined and simplified navigation of the website, and also brought the website up to date with current information and services.

PERSONAL PROJECTS

ren-soundex: A Python 3 package that implements the Soundex algorithm, as well as many other useful functions, such as measuring edit distances.

chat-server: An online chat service hosted on an Amazon EC2 Server, written in Node.JS.

calendar: A basic cloud calendar service hosted on an Amazon EC2 server using Apache, created using PHP and JQuery, with a MySQL backend.

file-hosting-server: A bare-bones cloud based file-hosting service hosted on an Amazon EC2 server served with Apache, written in PHP.

rpg-clicker-game: An incremental RPG game written in HTML (using Bootstrap), and JavaScript with the JQuery library.

SKILLS

Languages: Python 3, Java, PHP, MySQL, C#, C, HTML, JavaScript (and JQuery), Node.JS, CSS, LaTeX

Technologies: Apache, Amazon AWS/EC2, Linux, Unity, Git, Microsoft Office

ADDITIONAL INFORMATION

Member of Alpha Delta Phi: PR Manager for Alpha Delta Phi's Eliot Chapter.

Member of Campus Y: Volunteer at Clowder House Foundation, a local St. Louis animal shelter.