

# Jason Matthew Ren

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## EDUCATION

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### 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
- \* Introduction to Digital Logic and Computer Design
- \* Rapid Prototyping and Development

### Great Valley High School

*SAT: 2360 (800CR/800M/760W)*

Malvern, PA

*Aug. 2013 - June 2017*

## EXPERIENCE

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### 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

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

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

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

## SKILLS

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**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

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**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.