

Jason Matthew Ren

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EDUCATION

Washington University in St. Louis

BS in Computer Science; GPA: 3.42

St. Louis, MO

Aug. 2017 – Present

- **Teaching Assistant for::**

- * CSE132: Computer Science II (Spring 2019)

- * CSE330: Rapid Prototyping and Development (Spring 2019)

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:** Cleaned, standardized, and merged trauma center visitation data from local St. Louis hospitals with Python's regular expression and .csv packages, and created a patient identification system utilizing hash and soundex codes.
- **Data Visualization:** Created maps of the Saint Louis region with Tableau depicting social determinants of health for United Way of Greater Saint Louis in order to identify areas most in need of funding and aid.
- **Data Cleaning:** Wrote scripts in Python using the BeautifulSoup package 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 computers and devices with required softwares for summer camp locations. Wrote scripts to automate installation of software to optimize workflow 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 to optimize workflow of technicians.
- **Data Visualization:** Created visuals for data of bacteria within samples in Microsoft Excel.
- **Website Development:** Refined and simplified the navigation of and updated the website with current information and services.

PERSONAL PROJECTS

1001monkeys: Node.JS web app with a React.JS front-end in which users write a new book each day together by submitting short blurbs, and then voting on the next blurb to be added to the book.

ren-soundex: Python 3 package that implements the Soundex algorithm, which codes words into numbers in order to correct for spelling mistakes.

chat-server: Node.JS web app instant messaging service, utilizing Socket.IO for client-server interaction.

calendar: Cloud based calendar service hosted on an Amazon EC2 server using Apache. Created using JQuery for front-end, and a PHP-based backend interacting with a MySQL database on an Amazon EC2 server.

rpg-clicker-game: An incremental RPG game created with the Bootstrap HTML framework and JQuery.

SKILLS

Languages: Python 3, Java, PHP, MySQL, C#, C, HTML, JavaScript, CSS, LaTeX

Libraries and Frameworks: JQuery, React.JS, Node.JS, Socket.io, Bootstrap 4

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.