

Jason Matthew Ren

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EDUCATION

Washington University in St. Louis

Bachelor of Science in Computer Science; GPA: 3.51

St. Louis, MO

Aug. 2017 – Present

- **Teaching Assistant for::**

- * CSE330: Rapid Prototyping and Development (Spring 2019, Fall 2019)
- * CSE132: Computer Science II (Spring 2019)

Great Valley High School

SAT: 2360

Malvern, PA

Aug. 2013 - June 2017

EXPERIENCE

Convergent Financial Technologies

Full Stack Software Engineer Intern

Hamilton Township, NJ

May 2019 - Aug. 2019

- **.NET Core:** Wrote a controller utilized for privilege-less actions such as retrieving data for the login page for UVCloud, an Amazon EC2 cloud-based ASP.NET Core MVC pricing and trading program for the insurance industry.
- **Razor Pages:** Created and edited various Razor pages across the system, using Razor syntax to access model data and JQuery for front end action, such as a live search feature for the privilege management page.
- **Entity Framework Core:** Created data models and migration scripts for a Microsoft SQL Server database to replace expensive data access code.
- **Unit Testing:** Wrote NUnit unit tests for C++ DateTime, List, and other type extension methods.

Institute for Public Health at Washington University

Data Analyst

St. Louis, MO

Aug. 2018 - May 2019

- **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 both Tableau and R 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.

PERSONAL PROJECTS

1001monkeys: Cloud based Node.JS web application utilizing React.JS for 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 served with Apache. Created using JQuery for front-end, and a PHP 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, C#, C++, PHP, HTML, JavaScript, CSS, LaTeX

Other Technologies: .NET Core, Entity Framework, SQL, JQuery, React.JS, Node.JS, Bootstrap

ADDITIONAL INFORMATION

Member of Alpha Delta Phi: Internal Vice President of Alpha Delta Phi's Eliot Chapter.

Member of WashU Engineers Without Borders: Web Developer and maintainer for Washington University's Engineers Without Borders chapter.