

# Jason Matthew Ren

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## EDUCATION

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### Washington University in St. Louis

*Bachelor of Science in Computer Science; GPA: 3.50*

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

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### Convergent Financial Technologies

*Full Stack Software Engineer Intern*

Hamilton Township, NJ

*May 2019 - Aug. 2019*

- **.NET Core:** Wrote a controller utilized for actions that require no privileges for UVCloud, a cloud-based ASP.NET Core MVC pricing and trading program for insurance companies.
- **Razor Pages:** Created and edited various Razor pages across the system, utilizing JQuery for front end action.
- **Entity Framework Core:** Created data models and migration scripts for a SQL Server database to replace expensive data access code.
- **Unit Testing:** Wrote NUnit unit tests for 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 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.

## PERSONAL PROJECTS

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**1001monkeys:** Cloud based 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 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

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**Languages:** Python 3, Java, .NET Core, C#, C++, PHP, SQL, HTML, JavaScript, CSS, LaTeX

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

## ADDITIONAL INFORMATION

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

**Member of Campus Y:** Volunteer for Campus Y at Clowder House Foundation, a St. Louis cat shelter.