

Academic Address

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Renee St Louis

They/Them
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Contact Information

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OBJECTIVE: Full-time position in Software Engineering beginning January 2022 or later.

EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

Master of Science, Computer Science, May 2022 GPA Not Yet Available

Bachelor of Science, Computer Science, May 2021 GPA: 3.86/4.00

SKILLS

Languages and Frameworks: Angular, TypeScript, JavaScript, HTML, CSS, Python, SQL, Java

Software: Git, GitHub, MongoDB, Express, Node/NPM, Postman, Amazon Web Services, Glitch, Visual Studio Code, Eclipse, Microsoft (Word, Excel, PowerPoint), Google (Docs, Sheets, Slides), Mac, Linux

EXPERIENCE

Software Engineering Internship with Vee24, Boston, MA

May – August 2021

- Developed a dashboard to visualize user appointment data in TSQL, .NET, and Google Charts
- Designed a prototype dashboard in SSRS to receive feedback and gauge usefulness of widgets
- Optimized query design to achieve tenfold increase in speed for large client datasets in TSQL
- Documented decisions in query design and logical separation of functionality for the code I wrote and for the more obscure systems I worked with in TSQL and .NET

Software Engineering Internship with CommScope, Lowell, MA

June – August 2020

- Converted frontend components from legacy code to Angular and redesigned layout with Angular Material, with all Angular experience learned on the job
- Participated in daily scrum meetings to communicate progress and connect with team members
- Delivered a presentation on my work to explain its internal structure for future development

PUBLICATIONS

Modeling Distributed Training Performance, Major Qualifying Project, WPI August 2020 – March 2021

- Engineered a system to improve bucket-based data loading for cloud-based distributed deep learning using caching and pre-fetching with PyTorch in Python
- Conducted experiments on the Google Cloud Platform to optimize data loading parameters
- Published results on arXiv and the 2021 IEEE International Conference on Cloud Engineering

CODING PROJECTS

Software Engineering, WPI

August – October 2020

- Designed a full-stack web application to store, organize, and distribute video segments with Amazon Web Services, Java, Java Script, HTML, CSS, and SQL on a team of four

El Caño Archaeological Park App, Interactive Qualifying Project, Panama

August – October 2019

- Designed an app to give English- and French-speaking visitors a self-guided tour of El Caño Archaeological Park and refined the design with visitor and sponsor feedback on a team of four
- Built the design into a Progressive Web App using HTML, CSS, and JavaScript, then into Android and iOS native apps using Cordova, Android Studio, XCode, and shell scripts
- Wrote a 60-page manual explaining how to modify and update the app and a 70-page project report; presented findings and recommendations in a poster presentation to sponsors
- Taught relevant use of GitHub, Git, HTML, and CSS to groupmates, who had no coding background

ACTIVITIES

President, Gender Equality Club, WPI

February 2019 – Present

President, Alpha Phi Omega: National Co-Ed Service Fraternity, WPI

September 2018 – Present

Member, Upsilon Pi Epsilon: Computer Science Honor Society, WPI

January 2020 – May 2021