Mailing Address   **Matthew St. Louis**
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OBJECTIVE
Summer internship in Computer Science

EDUCATION
Worcester Polytechnic Institute (WPI), Worcester, MA
Bachelor of Science, Computer Science, May 2021 GPA: 3.86/4.00

SKILLS
Languages and Frameworks: Angular, TypeScript, JavaScript, HTML, CSS, Python, Java
Software: Git, GitHub, MongoDB, Express, Node/NPM, Amazon Web Services, Glitch, Visual Studio Code, Eclipse, Microsoft (Word, Excel, PowerPoint), Google (Docs, Sheets, Slides), Mac, Linux

EXPERIENCE
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

CODING PROJECTS
Data Visualization, WPI   January 2020 – May 2021
- Created various data visualizations using D3 and other libraries in JavaScript and Python

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 to find optimal parameters for data loading
- Compiled findings into paper and presentation with condensed takeaways for end user

Webware, WPI   August – October 2020
- Designed small full-stack web applications using MongoDB, Express, Angular, and NodeJS

Software Engineering, WPI   October – December 2019
- Designed a 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
- Presented design, features, and functionality to classmates and professor

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

ADDITIONAL EXPERIENCE
Peer Learning Assistant, Great Problems Seminar, WPI   August – December 2018
Eagle Quest Area Director, Camp Lawton, Mount Lemmon, AZ   May – July 2016 – 2017

ACTIVITIES
Member, Upsilon Pi Epsilon: Computer Science Honor Society, WPI   January 2020 – Present
Member, Running Club, WPI   February 2019 – Present
Fellowship Vice President, Alpha Phi Omega, WPI   September 2018 – Present