

MATTHEW KIRSHY

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Education

University at Buffalo - Senior

Computer Science Major with a Data Intensive Computing Certificate

- Member of UB ACM

Expected Graduation Date: Spring '19

Professional Experience

Software Engineering at Advance Documenting Imaging

Summer '18

Intern

- Designed and developed a dynamic web app allowing visualization of Quality Assurance data
- Backend design and implementation in **R** and **MySQL** allowing real time access to view, edit, and filter 1TB+ analytics tables decreasing load times by 400% - 500%
- Use of Agile/Scrum development methodology to plan project

Kent Custom Cases

07/2016 - 04/2017

IT Associate

- Oversee and administer company website, platforms, technology, and strategies
- Identify information systems enhancements that improves & support current and future business needs
- Enhanced website performance and expand website by 75% that resulted in a 6% market share growth

Projects

- **Tweet Sentiment Analysis:** A dynamic web app using computational linguistics to analyze a large corpus of tweets for sentiment and polarity score built in R for backend and Shiny for frontend and displaying a large volume of data correlating to a user interaction
- **Google Maps with Weather:** A functional Google Maps & Directions web app displaying weather along the directional route built using R for the backend and using Shiny for the frontend connected to a MySQL database that would store previous queried directions and pull them to save on API queries.

Academic Experience

TA for Software Engineering - CSE 442

Fall '18

- Managing student engineering teams using Agile/Scrum development methodology
- Serving as Product Owner keeping teams focused on sprint goals

TA for Digital Systems - CSE 241

Spring '18

- Conducted interactive discussions on a weekly basis with 100+ students
- Assisting them through question clarification regarding homework, tests, and labs in the classroom and online

Technical Skills

Front-end: HTML/CSS, ES6 JavaScript, Shiny, React

Back-end: C++, Java, Python, R, Docker, Node.js, Spark, Mapreduce

Database: MySQL, Oracle

Project Management: Agile, SCRUM

Familiar Environments: VS Code, HeidiSql, MySQL Workbench, RStudio, Docker, Github

Tools: Git, Visual Studio

Additional Experience

Bacchus Restaurant

02/2010 - 09/2014

Saute Cook

- 2nd place in Nickel City Chef Competition for developing 3 dishes in 1 hr around secret ingredient in 2013
- Creating artistic and delicious dishes for menu placement and specials cards for 200+ dinner covers a night