Joe Stephenson
Software Engineer - Employed
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Programming

Languages	Web Development	Data Analytics	Medical Technologies
• Python - General • Rust - Systems • JavaScript - Web • ObjectScript - Back-End • Java - Learning	• Angular - Ionic • Node - Express • htmt and css • xml technologies • json technologies	• Wrangling - BS4 + Selenium • Clearning - Numpy + Pandas • Pre-Processing - Sci-kit • Analytics - Tensorflow + Keras • Visualizations - Matplotlib	• hl7 v2/v3/v4 (fhir) • Electronic Medical Records • Health Information Exchanges • InterSystem's HealthShare • Smart on fhir
Databases	**Math Courses**	**Programming Courses**	**Current Projects**
• Relational - SQL • Object - Cache • Document - MongoDB	• Vector Calculus • Linear Algebra • Statistics (II)	• Object-Oriented Programming • Data Structure + Algorithms • Data Analytics	• EMR Graph Visualization • HL7 v2 simulator • Raspberry Pi Projects

Professional Experience

Junior Software Engineer | XchangeWorx - Albany, NY - June 2019 to Present
- Developer at the health information exchange covering Eastern New York and Southern Vermont.
- Built front-end components integrating xxxxx with the Health Information Exchange of New York.
- Designed data normalizations for regional health organizations enabling bidirectional patient data feeds.
- Developed extensive knowledge of the EMR ecosystem as well as health information exchange standards.
- Worked extensively with The Patient Portal, a website allowing patients to have control of their data
- Awarded professional certifications in SQL and ObjectScript from InterSystems in Cambridge, MA.

Research Fellow | Sanger Research Program - Beloit, Wi - May 2018 to January 2019
- 2018 Endowed Sanger Scholar studying the forecasting strategies adopted by neural networks.
- Programmed stacked convolutional and gated recurrent neural networks to predict market behavior.
- Created large dataset of financial instruments at minute intervals by automating various financial APIs.
- Presented research findings at the 2018 Wisconsin Economic Association's Conference.

Marketing Research Intern | Kerry - Beloit, Wi - Spring Semester 2018
- Forecasted consumer flavor preferences in the U.S. using both big data and qualitative analytics.
- Examined the influence of international flavor preferences on domestic consumer preferences.
- Worked along side flavor scientist to discuss symmetries between lab capabilities and market preferences.
- Created a library to visualize patterns and errors in a previous annual forecasts.

Teaching Assistant | Beloit College Department of Economics - Beloit, Wi - August 2017 to December 2018
- Teaching Assistant for Dr. Jermaine Moulton - assisting an advanced marketing research workshop.
- Teaching Assistant for Dr. Bob Elder - assisting an introductory quantitative economics class.
- Worked one-on-one with students, holding weekly office hours to review class material.
- Learned lifelong skills in breaking down complicated ideas in intuitive and simple ways.

AmeriCorps Member | AmeriCorps - Summer 2016 and Summer 2017
- 2016 AmeriCorps summer service as a camp counselor to people with disabilities - Easter Seals in Wisconsin
- 2017 Americorps summer service as a construction worker - Rebuilding Together in North Carolina.

Education

Beloit College | Major: **Economics**; Minor: **Physics** - Beloit, WI. - 2015 to 2019
- GPA - Major: 3.32 / 4.00 - Advanced coursework in mathematics, physics, computer science, and economics.
- Captain of Beloit College Swim and Dive - Three Years | Director of Beloit College Programming Board - One Year.