Greg Merritt

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Interests and Technical Experience

I am a generalist who enjoys all aspects of computer engineering, from hardware-aware performance computing, to web development and system architecture, to data science, and everything in between. Some projects include:

- A flexible multithreaded Neural Network in C using MPI: https://github.com/gremerritt/jockey
- Solving the Laplace equation on an icosahedron with MPI: https://github.com/gremerritt/icosahedral-lattice
- Computer Vision project to analyze videos of eels swimming in a tank: https://github.com/gremerritt/eel-cam

Technologies:

- Languages: Python, C/C++, Ruby, HTML, Javascript (+Coffeescript), SQL, CSS (+SASS)
- Frameworks/Libraries: OpenCV, OpenMP, MPI, Django, Ruby on Rails, Knockout
- AWS Ecosystem: Redshift, EC2, Lambda, SQS
- Linux, Mac OS X, Version control with Git

Employment

Software Engineer at InsightSquared (Boston, MA)   **January 2017 – Current**

InsightSquared is a business intelligence platform, providing insights into sales and marketing data. At InsightSquared I:

- Worked to move services from manually maintained servers into the cloud. Our goal was to build new modules (and re-architect many legacy modules) such that scaling those features would be as simple as pressing a button.
- Pushed to create a more robust testing framework. All new code is now expected to be unit tested, and tests are added to legacy code wherever possible.
- Re-worked our web application's authentication backend using JWT tokens, allowing us to create secure public APIs. This allowed us to develop microservices which were more robust and maintainable than creating new features in our monolithic main application, and which could run anywhere.
- Wrote code supporting our entire stack, from business logic and data processing scripts written with Python and Django on the backend, to dynamic dashboards and settings pages written with Coffeescript and Knockout on the frontend.

Support Engineer at EverTrue (Boston, MA)   **September 2014 – August 2016**

EverTrue is a SaaS startup, providing big data analytics to universities and nonprofits to use in their fundraising efforts. While at EverTrue I:

- Created internal utilities used by our engineering and support teams to analyze large customer data files in order to quickly identify formatting and data issues.
- Built a monitoring service for our data importer (Ruby with Docker). This allowed our support and engineering teams to proactively identify issues before they surfaced to customers, and to analyze bottlenecks in our processing pipeline.
- Worked with our customers to troubleshoot issues in our Web and Mobile applications.

Technical Services Analyst at Epic (Madison, WI)   **August 2012 – May 2014**

Epic provides a suite of applications used by the largest healthcare organizations in the country, and handles the medical records of over 50% of the US population. While at Epic I:

- Wrote and released production code (M/Caché) to our customers.
- Investigated software and server issues, and implemented creative solutions to technical problems.
- Managed long-term projects and goals for the hospital organizations with whom I worked.

Education

M.S. in Computer Engineering   **January 2015 – May 2017**
Boston University, Boston, MA

B.A. with Honors in Physics, Mathematical Sciences   **September 2008 – May 2012**
Colby College, Waterville, ME