

BRIAN D. OLSEN JR.

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Education and Certificates

Purdue University
Major: Master of Science in Computer Science

West Lafayette, IN
Expected: May 2016

Southern Illinois University (SIUE)
Major: Bachelor of Science in Computer Science

Edwardsville, IL
May 2014

Summary of Qualifications

Research & Development

- Installed and administered MS SQL and MySQL DBMSes for research projects
- Developed python scripts that collect, preprocess, analyze, and store data in a database
- Embedded soil sensors beneath vineyards in Napa Valley that send moisture and temperature readings
- Comfortable implementing end-user feedback and producing deliverables on an expected timeline for clients
- Set up a 5 node Hadoop cluster running MapReduce for spatial weather analysis
- Composed and published papers, gathered related work, and provided literature summaries
- Extended a WebGL map engine library to visualize spatial data using a multi-color triangle mesh
- Designing and implementing a .NET web application that visualizes data and assists winemakers and analysts in making informed decisions to optimize the quality of grapes used in production
- Improved functionality and applied unit and integration testing for a front-end online trading application

Management

- Mentored undergraduate students working throughout their research experience, delegated workload related to various projects, and provided feedback to individuals
- Supervised, trained, and directed a team of fifteen marines in training operations and while overseas

Technical Expertise

- Fluent Languages: Java
- Proficient Languages: C, C++, C#, JavaScript, PHP, HTML, CSS, SQL
- Familiar Languages: R, Python, SciPy, WebGL, Cesium, D3
- Operating systems: MS Server, MS Windows, Unix, Ubuntu
- Software: MS SQL, MySQL, Hadoop, Git, Eclipse, Visual Studio, RStudio

Employment History

Research Assistant
Purdue University

August 2014 – Present
West Lafayette, IN

Residential Solutions Software Development Intern
Emerson Climate Technologies

October 2013 – June 2014
St. Louis, MO

Application Development Intern
Scottrade

August 2012 – October 2013
St. Louis, MO

Data Network Specialist
United States Marine Corps
Honorable Discharge

June 2006 – June 2012
Bridgeton, MO
August 2013