BRIAN D. OLSEN JR.

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Education and Certificates

Purdue University   West Lafayette, IN
Major: Master of Science in Computer Science   Expected: May 2017
GPA: 3.6/4.0

Southern Illinois University (SIUE)   Edwardsville, IL
Major: Bachelor of Science in Computer Science   May 2014
GPA: 3.8/4.0

Satellite Wide Area Network (SWAN) Certificate   2009
Camp Pendleton   San Diego, CA

Professional Experience

Research
- Developed python scripts that collect, analyze, and store weather data.
- Installed and administered various DBMSes and a Hadoop cluster.
- Installed soil sensors that extract data from vineyards in Napa Valley for the viticulture project.
- Designed and created software that visualizes data that assists winemakers and analysts make informed decisions to optimize the quality of wine grapes.
- Attended conferences, presented prototypes and staged a poster that described work being done in the lab.
- Gathered related work and provided summaries and annotated bibliographies.

Management
- Mentored undergraduate students working in the lab and delegated work related to projects being done in the lab.
- Supervised over a helpdesk comprised of fifteen marines.
- Designated each marine to certain tasks to ensure smooth workflow, as well as, look after the well being of subordinates.
- Organized the retrograde of the equipment; designating if it would get destroyed or sent to another unit.

Computer Support
- Assisted the Transition Assistance Program manager in the design, development and implementation of customer applications using software packages.
- Assisted with the preparation of technical reports for Transition Assistance Program manager.
- Developed a user-friendly employment website for transitioning military members.
- Recorded data and implemented new resources daily for website visitors.

Network Equipment
- Performed work transporting, installing, and preparing the VSNAP (Virtual SIPRNet NIPRNet Access Point) for operation which provided much needed connection from the remote site in Ubaydi to Baghdad, Iraq where data was processed to identify potential terrorist movement.
- Identified components and techniques to properly operate and troubleshoot the Cisco switches and properly install, operate, and troubleshoot the KG-175D, an integrated cryptographic network device that encrypted and decrypted SIPRNet traffic.
- Performed work assignments involving systems and services used in storage, manipulation, management, movement, control, switching, transmission assurance, or in the reception of information.
- Installed, configured, operated, and maintained LAN and WAN networking systems.

<div align="center">**Employment History**</div>

Research Assistant   August 2014 – Present
Purdue University   West Lafayette, IN

Residential Solutions Software Development Intern   October 2013 – June 2014
Emerson Climate Technologies   St. Louis, MO

Application Development Intern   August 2012 – October 2013
Scottrade   St. Louis, MO

Data Network Specialist   June 2006 – June 2012
United States Marine Corps   Bridgeton, MO
Honorable Discharge   June 2012

<div align="center">**Skills**</div>

- Proficient in multiple operating systems (MS Server, MS Windows, Unix, Ubuntu and Debian)
- Programming Languages (C/C++, Java, Python, R, Visual Basic, HTML5, SQL, PHP)
- Database Systems (MS SQL, MySQL, and Hadoop Framework Installation and Administration)
- JUnit Testing and Automated Testing
- CISCO Systems
- Software/Hardware Installation

<div align="center">**Honors and Activities**</div>

Publications
- Mark McKenney and Brian Olsen. 2013. Algorithms for fundamental spatial aggregate operations over regions. In *Proceedings of the 2nd ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data* (BigSpatial '13). ACM, New York, NY, USA, 55-64. DOI=10.1145/2534921.2534930 http://doi.acm.org/10.1145/2534921.2534930
- Olsen, B.; McKenney, M., "Storm System Database: A Big Data Approach to Moving Object Databases," Computing for Geospatial Research and Application (COM.Geo), 2013 Fourth International Conference, pp.142,143, 22-24 July 2013 doi: 10.1109/COMGEO.2013.30

Security Clearance Level
- Secret

Academic Clubs
- Golden Key Student Chapter
- Computer Association of SIUE (ACM Student Chapter)

Academic Awards
- Outstanding Senior in the Department of Computer Science 2014
- William Gentry Computer Science Scholarship

Military Awards
- National Defense Service Medal
- Marine Corps Reserve Medal
- Certificate of Commendation
- Armed Forces Reserve Medal
- Iraq Campaign Medal
- Global War on Terrorism Medal
- Sea Service Deployment Ribbon