

Bradley LaVigne

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Education

- June 2016 **B.S. Computer Science**, *University of Wisconsin Oshkosh*.
- ABET accredited
- June 2016 **B.A. International Studies**, *University of Wisconsin Oshkosh*.
- Global and National Security emphasis
 - Minor in Japanese Language

Skills Summary

- Programming
- Object-oriented programming and design in Java, C#, C++
 - Functional programming with Scala, Javascript, Scheme, ML
 - System-level programming in C on GNU/Linux
 - 3-D graphics using OpenGL
- Databases
- Some experience with MySQL and MS SQL
 - Understanding of relational algebra and database normalization
- Tools
- Eclipse, Visual Studio, Git, Ant, Maven, Linux
 - JSON, XML, XAML, LaTeX

Projects and Open Source Contributions

OpenMRS, *Electronic medical records platform*.

- Completed a practicum project in spring 2016 focused on OpenMRS—specifically targeting familiarization with methods of communication, version control, frameworks, and other tools necessitated by large projects and distributed teams.
- Contributed bug fixes related to Hibernate ORM queries (currently in code review)

OpenDSA, *Algorithm and data structure visualization*.

- Created visualizations to demonstrate dynamic programming concepts using OpenDSA API to generate slide shows based upon user input
- Developed prototype visualizations for lambda calculus module of an online programming languages textbook as a research assistant

Awards and Recognition

- *Cum laude* graduation honors GPA: 3.60/4.00
- UW Oshkosh Honors Program
- Scored in 97th percentile of graduating CS majors on ETS Major Field Test
- Sigma Iota Rho *National honor society for international studies*

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Work History

- Sep 2014– **Computer Science Tutor**, *University of Wisconsin*, Oshkosh, WI.
- May 2016
- Provided tutoring for introductory and intermediate level Computer Science courses
 - Courses tutored: Introduction to Computer Science and Programming, Object-Oriented Design and Programming I & II, Computer Architecture and Assembly Language, Data Structures, Discrete Math
- Jan 2015– **Research Assistant**, *University of Wisconsin*, Oshkosh, WI.
- May 2015
- Developed prototype visualizations for lambda calculus module of an online programming languages textbook
- Jan 2005– **Telecommunications Specialist**, *Tekmark Global (Verizon)*, Arlington, VA.
- Nov 2010
- Performed pre-service testing of long-haul network infrastructure
 - Trained new hires, and produced training materials and job aids
- Nov 2001– **Equipment Installer**, *DirecTV*, Escanaba, MI.
- Sep 2002
- Installed satellite dishes, cable runs, and receivers per customer requirements
- Jun 2001– **Central Office Technician**, *Tek Systems (Sprint)*, Mt. Vernon, OH.
- Sep 2001
- Coordinated verification of existing circuits prior to infrastructure upgrades
 - Prepared and delivered status reports for engineering management
- Jul 2000– **Telecommunications Engineer**, *Global Associates (Qwest)*, Dublin, OH.
- Mar 2001
- Migrated special services circuits to comply with FCC regulations
- Jan 1999– **Trouble Management Specialist II**, *Winstar Communications*, Herndon, VA.
- Jul 2000
- Performed troubleshooting of network outages involving voice and data services
 - Frequently tasked with resolving highly escalated issues

Military

- Aug 1995– **Satellite Communications Specialist**, *United States Army*.
- Sep 1998
- Operated and maintained satellite communications systems for the Joint Chiefs of Staff contingency terminal
 - Designed and implemented enhanced maintenance procedures in order to ensure mission readiness of aging equipment
 - Honorably discharged