

David Barnes

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Summary of Qualifications

Experienced Computer Information Systems Instructor and Software Engineer with a proven track record of delivering highly qualified and knowledgeable students. Instructional strengths include various instructional strategies, curriculum development, cross department collaboration, and university partnerships. Software engineering strengths include full stack web application solutions, business productivity enhancements through the use of software, project time management, and the modeling of data and business processes/systems.

Professional Experience

CIS Adjunct Faculty Instructor, Kalamazoo Valley Community College, Kalamazoo, MI August 2014 – Present

Kalamazoo Valley Community College is a post-secondary institution committed to enriching the lives of students and communities through quality educational programs and services.

- Provide informative presentations and in class demonstrations to students using a variety of instructional strategies to ensure that all students fully comprehend all aspects of the programming concepts and logic.
- Develop exciting program and class curriculum improvements in conjunction with the Department Chair and Western Michigan University's Computer Science department to ensure that any changes that are made provide the maximum amount of value possible for every student.
- Help students find internships and entry-level jobs in the Kalamazoo area through KVCC's internship coordinator, personal professional contacts, and alumni student relationships.
- Work with other departments to create and facilitate multi-discipline classes such as Web Development for eCommerce (BUS 273) that requires students from different disciplines to form a team and take on roles such as Project Manager, Web Designer, Software Developer, Technical Writer, and Business Analyst to succeed in the course requirements.
- Classes currently and previously taught:
 - CIS 237 Advanced C# – Using C#, ASP.NET, MS SQL Server, and Git
 - CIS 298 Mobile Application Development – Using Java, and Git
 - BUS 273 Web Development for eCommerce

Senior Software Engineer, Bert R. Hybels, Inc., Kalamazoo, MI July 2015 – Present

Bert R. Hybels, Inc. is a Kalamazoo based bedding plant brokerage between 26 Kalamazoo area plant growers and over 1000 independent garden centers throughout half of the United States. Shipping over 1000 loads consisting of approximately 28000 carts of product each spring season.

- Designed, implemented, and tested a new web based system to handle planning between customer orders, grower product inventory, and trucking logistics using PostgreSQL, Python and the Django web framework.
- Improved existing web based system for customer orders to better handle grower product inventory and the basics of trucking logistics using MySQL, PHP, and Laravel.
- Implemented a secure web based API for growers to facilitate third party B2B software communication.
- Successfully deployed and maintain web based systems using Linux machines in a virtualized environment on Amazon Web Services.
- Upgrade network infrastructure for redundant fiber and cable Internet connections and a zero configuration fail over to backup lines in the event of disruption.

Senior Software Engineer, Western Michigan University, Kalamazoo, MI**January 2013 – December 2014**

Western Michigan University's College of engineering and applied sciences (CEAS) is located at WMU's Parkview campus and is home to all engineering programs as well as the Computer Science program.

- Redesigned and developed a client side web application using PHP, Laravel, and Backbone.js for 250 employees and faculty that included time clock functionality, employee scheduling, room scheduling, and inventory tracking.
- Improved an existing PHP, Laravel and C# system that tracks the attendance of approximately 2000 students that visit any of the 4 Student Success Centers (SSC) at CEAS, as well as any of the 8 new SSCs added throughout the rest of the University due to popularity of the program.
- Designed and implemented an easy to use website for potential engineering students to sign up for a CEAS tour, which lead to an increase in the number of tours by 150%.

Software Developer, Western Michigan University, Kalamazoo, MI**June 2012 – December 2012****Volunteer**

Co-advisor, Kalamazoo Valley Community College (KVCC) IT Club, Kalamazoo, MI**August 2011 – Present**

Mentor and teach the members of KVCC's Information Technology (IT) club. Topics include a variety of IT and soft skill related topics that students may not otherwise be exposed to in an educational setting such as:

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| • Resume and Interviewing Workshops | • IT in Supply Chain Management |
| • IT Industry Speakers | • Digital Forensics |
| • WMU student experiences in Computer Science | • Basics of Web Application Frameworks |

Escort students to two collegiate conferences called USITCC and MWC3 where they can participate in competitions and breakout sessions to further their IT knowledge and learn how to participate in a professional style IT conference.

Work with students on a two semester long web project for a competition at the USITCC National Collegiate Conference. The last 3 years that the competition was offered, the web project team placed 1st place among 15 – 20 entries from both 2-year and 4-year institutions

Midwest Collegiate Computing Conference (MWC3) Webmaster, Kalamazoo, MI**January 2018 – Present**

- Design, create, maintain, and enhance the MWC3 website used both before and during the conference for marketing, registration, announcements, and competition judging.
- Write the Visual Studio problem statement and judge the Visual Studio competition.

Technical Skills

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| • C# | • jQuery | • MySQL | • Networking |
| • Python | • REST | • MS SQL Server | • MVC / OO Design |
| • Java | • JSON | • Git | • Project Management |
| • JavaScript | • XML | • Laravel | • Database Design |
| • PHP | • Mac OSX | • Django | • UML |
| • HTML5 | • Linux | • ASP.NET | • System Administration |
| • CSS3 | • Windows | • Backbone.js | |

Education

Master of Science, Computer Science**2014**

Western Michigan University, Kalamazoo MI. 3.94 GPA

Bachelor of Science, Computer Science; Minors: Mathematics, Computer Information Systems**2012**

Western Michigan University, Kalamazoo MI. 3.65 GPA