

Christopher Ward

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EDUCATION

Western Carolina University
Bachelor of Science, Computer Science
Bachelor of Science, Environmental Science

Cullowhee, NC
Graduation December, 2015

TECHNICAL SKILLS

Languages: Java, Python, MIPS, C, C#, SQL, Bash, Perl, PHP, HTML, CSS, JavaScript
Software Tools: Git, Make, gdb, Valgrind, Vim, Subversion, sed, awk, grep, Ant, JUnit, Eclipse,
Microsoft Office, Visual Studio, XCode, and various others
Platforms: Linux, Windows, Mac OS
Other: L^AT_EX, Django Web Framework

SELECTED PROJECTS

Computer Science Capstone – *Shuttle Tracking System*

Fall 2013 - Present

- Designed a cross-platform application that allows students the ability to monitor the location of campus shuttles.
- Using Android phones and a custom-built tracking application, which relays to a database server.
- Allows collection and reporting of shuttle ridership data using OpenCV.
- Ridership stats would help administrators decide which routes should be optimized to be more efficient, making the campus, and overall transit system more sustainable.
- Learned how to integrate various technologies (HTML/JavaScript, PHP, SQL, Java, Python) so they would work as a system flawlessly.
- Conferences Presented: National Conference for Undergraduate Research (NCUR), Appalachian Energy Summit, and Western Carolina Undergrad Expo

Environmental Science Capstone – *Evaluation of Commuter Transportation Sustainability*

Fall 2013

- Evaluated current commuter transportation habits by polling students as they arrived to campus, studied time taken to fill parking lots, and what distribution of traffic entered campus throughout the day.
- Based recommendations to improve Western Carolina University's around what other, more sustainable campuses of comparable size, are doing differently.
- Recommended incentive programs for carpooling, improving sidewalk and bicycle systems from apartments to campus, and child care services for faculty and staff, among others.
- Conferences Presented: National Conference for Undergraduate Research (NCUR), Appalachian Energy Summit, and Western Carolina Undergrad Expo.

WORK EXPERIENCE

Western Carolinian
Photographer

Cullowhee, NC
2012–Present

- Produce photographs for newspaper articles, appearing both in print and online.

Rapidfire Mods, LLC
Hardware Developer

Morganton, NC
2009–2010

- Developed and manufactured rapid fire mod-chip hardware to evolve with the ever-changing circuit layouts on Microsoft Xbox 360 controllers.

People Centric PCs
Network Installation

Morganton, NC
2010

- Responsible for installing full network and servers for newly opening computer repair business.
- Built, configured, and installed workstations.

PROFESSIONAL AFFILIATIONS AND ORGANIZATIONS

- Webmaster for Western Carolina University's Association for Computing Machinery chapter. 2013–Present