Zachary Wieand

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EDUCATION

UNIVERSITY AT BUFFALO
BS in Computer Science
Minor in Mathematics
Graduated May 2017 | Amherst, NY
Summa Cum Laude
Dean's List (8 Semesters)
Cum. GPA: 3.91 / 4.0

COURSEWORK

Intro to Computer Science I & II
Data Structures and Algorithms
Programming Languages
Algorithms
Operating Systems
Machine Learning
Scientific and Mathematical Computing
Intro to Security
Modern Networking Concepts
Distributed Systems

SKILLS

PROGRAMMING
Over 10,000 lines:
Java
Over 8000 lines:
Python • C • C++
Familiar:
Android • Flask • HTML • CSS

EXTRACURRICULAR ACTIVITIES

Secretary of Association of Computing Machinery
Update Events Page of ubacm.org on a weekly basis
Organizer of UB Hacking 2014/15/16
Member of University at Buffalo Division 2 Inline Hockey Team
Participant of University at Buffalo Intramural Volleyball

RELEVANT WORK EXPERIENCE

LOCKHEED MARTIN | Software Engineer Associate, International Submarine Programs
August 2017 - Present | Manassas, VA
- Designed and implemented a data recording and playback system for future analysis of core sensor data.
- Created a Jenkins pipeline to provision a full virtual software development envrionment for Fedora Core 9 and RHEL7.3 operating systems at the click of a button.
- Sped up the software deployment process by 30% using Ansible playbooks.
- Migrating core software components (software RAID, X11 clients/servers) from a RHEL5 to a RHEL7.4 operating system and verifying on production hardware.

GOOGLE | Sofware Engineer, Tools and Infrastructure Intern
May 2016 - August 2016 (12 weeks) | Mountain View, CA
- Extended an existing iterative testing tool for Java regression tests. Allows engineers to run these tests 5 times faster.
- Added in a test case filtering feature to the tool for even faster test run speeds.
- Fixed race conditions and other bugs in order to speed up the release of the testing tool.

GOOGLE | Engineering Practicum Intern, Google Apps For Work
May 2015 – Aug 2015 (12 weeks) | Mountain View, CA
- Implemented a shell script to automatically detect and repair missing test coverage for code review and submission of widely used libraries. Doubled test coverage for these libraries.
- Designed, implemented, and deployed a Java MapReduce job to report and fix 7 types of data corruption.

UNIVERSITY AT BUFFALO | Undergraduate Teaching Assistant
Intro to Computer Science I & II | Aug 2014 – May 2017
- Taught 20+ students in lab environment and 200+ in lecture hall.
- Held weekly office hours to guide students through data structure and algorithm design.
- Graded midterm and final exam papers.

Operating Systems | Jan 2017 – May 2017
- Held 4+ weekly office hours to answer programming assignment questions and guide students through system design.
- Organized and participated in hack nights to help students tackle last minute bugs and complete programming assignments before the assignment due date.

UB HACKING 2016 | Lead Web Developer
- Deployed a Flask web framework to a Digital Ocean Ubuntu server.
- Managed the operations of client and server side teams.
- Held biweekly meetings with web team to discuss progress and road blocks.
- Frequently met with other team leads to discuss other features needed on the site.