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 fudll 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 | & || | | 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.