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

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 20,000 lines:

Java • C++

Over 10,000 lines:

Pvthon • 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

- Created a Jenkins pipeline to provision a full virtual software development and runtime environments for Fedora Core 9 and RHEL7.3 operating systems.
- Led the migration of software and operating system components from Fedora Core 9 to RHEL7.4 and from RHEL5.4 to RHEL7.4.
- Designed and implemented a data recording and playback system for future analysis of core sensor data.
- Reduced disk usage 75% by migrating compile and development environments to Docker containers.
- Sped up the software deployment process by 30% using Ansible playbooks.
- Built a file parser to convert sigc++ API to boost signals. Saved team \$60,000 of labor hours.
- Risk Management Framework representative for my lab. Responsible for ensuring my lab is compliant with government regulation of classified assets and developing common security procedures across all classified labs at Manassas site.

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 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.
- Met with other team leads weekly to discuss additional features required.