Dominic Giacoppe

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Education

Oregon State University, Corvallis, OR   Expected graduation date: April 2018
Major: Computer Science with the Systems option
Minor: Asian Culture with a concentration in Japanese (Formerly the Japanese Minor)
Current standing: Senior, 3.5 cumulative GPA

Employment

Teacher's Assistant position for OSU Online Intro to Computer Science
Corvallis, OR   January 2014 – Now
> Manage around 30 students a term, assisting with questions and grading assignments written in C++, and if needed reviewing and debugging student code. Review new materials for the course as asked by the instructor. Historically, about 90% of students who came to me for help passed the course.

Classes of Note

Software Engineering I
> Practiced AGILE methods and Test Driven development in a small team in Java, using the NetBeans IDE. Used a maven-based build system locally and travisCI on github to ensure code complaince. Also learned some software engineering best practices and program design. All of this was used on the term project, which went quite well.

Computer Architecture
> Learned the more physical components of computers, including about CPU memory, memory access and efficient access patterns. Class was largely focused on the x86_64 and ARM architectures and their implementations, with special focus on x86_64 and the assembler. Used this knowledge to analyze and describe the architecture of the Commodore64 in an end of term paper.

Activities

Senior Project, Corvallis, Oregon   September 2016 – July 2017
> Part of a three person team working on identifying security vulnerabilities and exploits for ROS, the Robotics Operating System. Over the year, we tested ROS and created packages to demonstrate vulnerabilities that we found, culminating in a report on our findings available on my github. We found that ROS has no effective security measures, making it very easy to exploit, and to secure it one must secure the underlying operating system along with all communication channels ROS uses.

Study Abroad, **Waseda University**, Japan   April 2016 – August 2016
> Studied abroad in Japan for a semester while living with a host family. Lived as a Japanese college student for that time, and participated in college and community activities. Spoke mostly Japanese for the duration of my time, with classes taught in Japanese as well.

Skills

- Highly Proficient in C and C++
- Moderate understanding of Python, Java, SQL and HTML/Javascript
- Some Test Driven Development (TDD) and AGILE experience
- Proficient in Bash and Bash like terminals
- Experience in Linux environments, including at the kernel level.
- Experience in git/github for version control
- Strong small team communication and leadership skills
- Japanese language level of around JLPT N3 (Sufficient to carry a basic conversation)

References

Joseph Jess, Instructor at LBCC and former employeer
jessj@linnbenton.edu
Professor Jennifer Parham-Mocello, Professor at OSU
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Timothy Alcon, current employer and Instructor at OSU
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