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Strahinja Trećakov

Systems developer with 4+ years of experience developing software and writing documentation in the agile environment. Over 2 years of experience maintaining High Performance Computing and High Throughput Computing clusters as well as working with Slurm and HTCondor schedulers. Very positive and hardworking person with great problem-solving skills.

SKILLS

Strong teamwork and leadership skills.
Strong problem-solving skills.
Ability to learn new languages/concepts very quickly.
Good public speaking skills.

Experienced with:
Java / C / C++ / HTML / Assembly

Familiar with:
Python / ADA / C# / FORTRAN / PHP / JavaScript / CSS / MySQL / Lisp / COBOL / Pascal / Bash

LaTeX
WordPress
Visual Studio / Eclipse / Xcode
Vi
SVN / Git
GDB
Slurm / HTCondor
Spack
Ansible
Unix / Windows

WORK EXPERIENCE

Systems Developer at New Mexico State University – April 2019 - present

Designing, implementing, maintaining and administering hardware, software and configurations for the backend processing systems at New Mexico State University. Writing and testing our code development as well as documenting our work and writing manuals. Troubleshooting everyday issues and monitor overall performance of our 400+ servers mixed system environments. Working on projects that require both Unix, Windows and programing skills. Automating our build and development processes using puppet and ansible. Maintaining High-Performance Computing and High-Throughput Computing clusters as well as deploying, configuring, managing and troubleshooting all related issues to clusters.

Systems Developer at New Mexico State University – July 2018 – March 2019

Maintained New Mexico State Universities High-Performance Computing cluster and architected Aggie-grid(High Throughput Computing) cluster. Worked with Slurm and HTCondor schedules as well as OSG repository and Spack for software.

Undergraduate/Graduate Research/Teaching Assistant at New Mexico State University – May 2015 – August 2018

Over the span of 3 years, I worked on different projects as well as a teaching assistant in Computer Science department.

- Developed an Automated Vulnerability Analysis Tool (AVANT), a vulnerability tool that is architecture-agnostic and reports vulnerability found from our test suite. AVANT is used to evaluate the security performance of different architectures.
- Helped organize Research Experience for Undergraduate(REU) BIGDatA - Big Data Analytics for Cyber-Physical Systems to inspire and prepare undergraduate students for academia and research. I worked closely with students helping them make their first research steps.
- As a member of NMSU Cyber Infrastructure Architect and High-Performance Computing teams, I helped students and professors with their issues and questions about our cluster Joker. I helped prepare and present workshops about Linux, Supercomputers, Slurm and Joker. I maintained the software on our HPC cluster and I worked on smaller side projects.
- As a teaching assistant for CS474 (Operating System) and CS478/579 (Computer Security), I helped teacher prepare course material, exams, homework and programming assignments. Moreover, I assisted teacher with grading, supervising and teaching the class and helped students with questions and concerns about course material, homework and programming assignments.
- Worked on capturing and analyzing data between IoT devices and smartphone on different setups.

- Worked as a software developer on Common Open Research Emulator. I was in charge of fixing secure communication between different nodes under spoofing attack, as well as a data forwarding attack.

EDUCATION

Master of Science in Computer Science 2017 - 2018

New Mexico State University

Bachelor of Science in Computer Science 2012 - 2016

New Mexico State University

Thesis topic: An Experimental Study of Security and Privacy of the Internet of Things Devices

Minors in Mathematics, Computer Systems, and Software Development

AWARDS/ACHIEVEMENTS/VOLUNTEER

- Volunteer in the Youth Office and in the Youth Initiative NGO.
- Participant in the Serbian Youth Leadership Program (SYLP).
- Crimson Scholar.
- Member of Student Athlete Advisory Committee.
- Member of MENSA INTERNATIONAL.
- Professional Tennis Registry Certified.
- Graduate Scholar - Athlete Award(2016).
- Western Athletic Conference All - Academic List 2012-2016.
- Intercollegiate Tennis Association All – Academic List 2013-2015.

PUBLICATIONS

Trecakov, S., Tran, C., Badawy, H., Siddique, N., Acosta, J., & Misra, S. (2017, October). Can Architecture Design Help Eliminate Some Common Vulnerabilities?. In *2017 IEEE 14th International Conference on Mobile Ad Hoc and Sensor Systems (MASS)* (pp. 590-593). IEEE.