

Audrey Dutcher

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Education

University of California, Santa Barbara – Masters student, first year

University of California, Santa Barbara – Done with bachelors but not yet received, 3.9 GPA

Dos Pueblos High School – 2014 Graduate, 4.6 GPA

Technical Skills

Security auditing for all forms of software, including **reverse engineering** of binary code

Application programming in C, C++, Python, Go, Bash, Node.js, Java, C# for Windows, Linux, Android. Particularly, mastery of **python**, including package distribution

Unix Server Administration – Experience in setup and administration of servers with Apache/Nginx, MySQL/Postgres, Docker, Kubernetes, AWS/GCP/etc

Web Development – HTML/CSS/Javascript, PHP, Python (e.g. Django), Heroku, websockets
Proficiency in writing x86, ARM, MIPS, 65c816, and cLEMENCy **assembly**

Professional Experience

- Paid research position at UCSB **computer security research lab**, working under professor Giovanni Vigna in the fields of binary analysis and reverse engineering. Core developer and community manager on the **anгр** binary analysis project. Player in the **Cyber Grand Challenge** on the lab's team Shellphish, winning 3rd place
- R&D internship at **Palo Alto Networks**, focusing on automated malware classification
- Employment by **family business** for web development and web malware removal, separately for design and programming of automotive diagnostics tools

Publications

SoK: (State of) The Art of War: Offensive Techniques in Binary Analysis, IEEE Symposium on Security and Privacy 2016

Driller: Augmenting Fuzzing Through Selective Symbolic Execution, Network and Distributed System Security Symposium 2016

Competitive Experience – Capture the Flag Competitions

Organized the UCSB iCTF with team Shellphish, 2014, 2016

Qualified and attended final rounds for DEFCON CTF on UCSB team Shellphish, many years

Qualified and attended final rounds for CSAW CTF team CTF, 2013, 2014, 2015, 2016

Qualified and attended final round for Codegate Junior individual CTF 2014 in Seoul, Korea

First Place Team Member in 2013 PicoCTF national high school hacking competition

Additional resources

<http://github.com/rhelmot> - <http://anгр.io> - <https://ctftime.org/team/285> - <http://bit.ly/IqT6zt>