

# Roy Shadmon

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## » *Education*

### **University of California, Santa Cruz**

Doctor of Philosophy (PhD) Student Computer Science | Sept. 2019 – Pres | Adviser: Prof. Owen Arden  
Master of Science (M.S.) Computer Science | Jan. 2018 – Jun. 2019 | GPA 3.84 | Adviser: Prof. Owen Arden  
Bachelor of Science (B.S.) Computer Science | Aug. 2014 – Dec. 2017 | GPA 3.44

## » *Work Experience*

### **Salesforce, San Francisco, California**

Software Engineering Intern, June 2021 – September 2021

Software Engineering Intern, June 2020 – September 2020

- Developed a Kubernetes horizontal pod autoscaler (HPA) based on external metrics.
- Developed a rate-limiter in a distributed log-collecting service.

### **Looker Data Sciences (acquired by Google), Santa Cruz, California**

Security Engineer, December 2019 – June 2020

Security Analyst, September 2019 – December 2019

Security Analyst Intern, June 2019 – August 2019

- Developed a malware detection and repair tool for actively running Kubernetes containers.
- Developed various tools to detect network adversarial threats occurring on the Looker app.

### **Juniper Networks, Sunnyvale, California**

Software Engineering Intern, June 2018 – September 2018

- Developed a real-time, highly-available network monitoring system with reported alerts sent to phone that is an alternative to Amazon ES and saves \$1000+/month per instance.

### **Lend Street Financial, Oakland, California**

Full Stack Software Engineering Intern, June 2017 – March 2018

- Built to production werebound.com and automated 25% of underwriting process on lendstreet.com.

### **Storage Systems Research Center, UC Santa Cruz**

Research Assistant, July 2016 – January 2018

- Formatted and edited 200+ research papers and designed 100+ graphs.

## » *Teaching*

### **Jack Baskin School of Engineering at UC Santa Cruz**

Graduate Teaching Assistant – Quarter appointments

- CSE 30 (Winter '21), CSE 115C (Spring '19), CSE 115B (Winter '19), CSE 115A (Fall/Spring '18).

## » *Projects & Research*

### **Proximal Consensus: Responsive Data Pipelines with Approximal Fault Detection (in submission)**

CIDR 2022: 12<sup>th</sup> Annual Conference on Innovative Data Systems Research

- [https://royshadmon.github.io/files/CIDR\\_2022\\_Submission.pdf](https://royshadmon.github.io/files/CIDR_2022_Submission.pdf)

### **Vote Them Out: Detecting and Eliminating Byzantine Peers**

SoCC 2019: Proceedings of the ACM Symposium on Cloud Computing

- A BFT SMR that detects faulty behavior and supports dynamic cluster reconfiguration.

### **Off-Chain Application for the Blockchain – Ethereum & Solidity & Node.js & Truffle**

Master's Degree Project

- A fully verifiable, nearly fee-less, and provably fair dApp game that uses state channels.

## » *Certifications*

Salesforce Trailhead Ranger | Sumo Logic: Fundamentals Certification

## » *Skills*

Languages: Python, Java, Node.js, Solidity, Lua, SQL, Ruby on Rails, LaTeX

Tools: Kubernetes, Docker, Ethereum, Prometheus, Salesforce, Terraform, Ansible, AWS, GCP, Postgres, Redis, SumoLogic, Elasticsearch, WireShark, Jira