Aditya Saligrama

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Computer science major at Stanford University with experience in security, systems, and machine learning

Education

Stanford University Sep. 2020 – Jun. 2024

B.S. Candidate in Computer Science (Systems track) | GPA 3.91 *Stanford, CA*

- Coursework includes Cryptography, Computer and Network Security, Embedded OS, Compilers, Algorithms, ML

Experience

Software Engineering Intern Jun. 2022 – Sep. 2022

Lacework *San Jose, CA*

- End-to-end virtualization of benchmarking system on Spark to speed up and simplify database usage vs. Snowflake
- Contributions to SQLGlot, an open-source SQL parser and transpiler

Teaching Assistant, INTLPOL 268 Hack Lab Sep. 2022 – Present

Stanford University | TA for Alex Stamos, Riana Pfefferkorn *Stanford, CA*

- TA for 150+ student intro cybersecurity course — lab design and GCP infrastructure, discussion section instruction

Freelance Security Consultant Jun. 2022 – Present

- Clients include Stanford startups; consultation on initial setup and ongoing security of tech stack

Vice President and CCDC Linux Lead Jan. 2021 – Present

Stanford Applied Cybersecurity *Stanford, CA*

- Responsible for securing Linux systems against external penetration testing team in CCDC competition environment
- Leading security basics workshops for beginners and application security workshops for entrepreneurs
- Presented on vuln-finding in Firebase apps; contributed to Baserunner, an open-source Firebase exploration tool

Research Assistant Jun. 2017 – Present

Harvard University | Supervised by Margo Seltzer, Cynthia Rudin *Cambridge, MA*

- Work on parallelizing CORELS, a machine learning algorithm that builds human-interpretable rule list models
- Co-first author of upcoming paper on systems optimizations that allow algorithm to scale to large datasets
- Implemented public web UI and R language API

Engineering Intern Nov. 2020 – Apr. 2021

Uptycs *Waltham, MA*

- Deployed production feature to `osquery` monitoring software to inspect and detect malware in Java packages
- Functionality helped detect and patch client software with Log4j vulnerabilities

Research Assistant Apr. 2021 – Dec. 2021

Stanford Open Virtual Assistant Lab (OVAL) | Supervised by Monica Lam *Stanford, CA*

- Work on virtual assistants to classify customer support requests with GPT-3 data augmentation

Research Science Institute Intern Jun. 2019 – Aug. 2019

Akamai Labs *Cambridge, MA*

- Wrote, deployed realtime garbage collection monitoring system for Go language programs with per-thread detail

Research Assistant Jan. 2018 – Jun. 2020

MIT PRIMES *Cambridge, MA*

Project I: Rust Concurrency Analysis | Supervised by Jon Gjengset, Frans Kaashoek *Jan. 2018 – Apr. 2019*

- Developed set of fast, lock-free concurrent hashmaps for the Rust language with 100+ stars on GitHub

Project II: Adversarial Machine Learning | Supervised by Aleksander Madry *Jan. 2019 – Jun. 2020*

Publications

A. Saligrama,G. Leclerc.Revisiting Ensembles in an Adversarial Context: Improving Natural Accuracy.*ICLR:TML'20*, 2020.

A. Saligrama. KnowBias: Detecting Political Polarity in Long Text Content. *AAAI:SAP'20*, 2020.

A. Saligrama. KnowBias: A Novel AI Method to Detect Polarity in Online Content. *arXiv:1905.00724*, 2019.

A. Saligrama, A. Shen, J. Gjengset. A Practical Analysis of Rust's Concurrency Story. *arXiv:1904.12210*, 2019.

N. Larus-Stone, E. Angelino, D. Alabi, M. Seltzer, V. Kaxiras, **A. Saligrama**, C. Rudin.
Systems Optimizations for Learning Certifiably Optimal Rule Lists. *SysML Conference*, 2018.

Selected Awards and Honors

- 3rd place team, National CCDC; 1st place team, Western Regional CCDC (2022)
- USA Computing Olympiad, Gold Division (2018 – 2020)