

# ADITYA SALIGRAMA

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

## EDUCATION

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**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, Parallel Computing, Embedded OS, Compilers, Algos., ML

## EXPERIENCE

### I. Work experience

**Software Engineering Intern at Lacework** Jun. 2022 – Sep. 2022 at 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

**Engineering Intern at Uptycs** Nov. 2020 – Apr. 2021 at Waltham, MA  
• Wrote and 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

**Freelance Security Consultant** Jun. 2022 – Present  
• Clients include Stanford startups; consultation on initial setup and ongoing security of tech stack

**Research Science Institute Intern at Akamai Labs** Jun. 2019 – Aug. 2019 at Cambridge, MA  
• Wrote and deployed realtime garbage collection monitoring system for Go language programs with per-thread detail

### II. Teaching and leadership experience

**Teaching Assistant for INTLPOL 268 Hack Lab at Stanford University** Sep. 2022 – Present at Stanford, CA  
*TA for Alex Stamos, Riana Pfefferkorn*  
• TA of 170+ student intro security course leading lab design and GCP infra., instruction for two discussion sections (40 students)

**Vice President, DOE Cyberforce Captain, and CCDC Linux Lead** Jan. 2021 – Present at Stanford, CA  
**at Stanford Applied Cybersecurity**  
• Responsible for securing systems against external red teams in CCDC and DOE Cyberforce competition environments  
• 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

### III. Research experience

**Research Assistant at Harvard University** Jun. 2017 – Present at Cambridge, MA  
*Supervised by Margo Seltzer, Cynthia Rudin*  
• 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

**Research Assistant at Stanford University** Apr. 2021 – Dec. 2021 at Stanford, CA  
*Research at Open Virtual Assistant Lab (OVAL) supervised by Monica Lam*  
• Work on virtual assistants to classify customer support requests with GPT-3 data augmentation

**Research Assistant at MIT PRIMES** Jan. 2018 – Jun. 2020 at 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 140+ stars on GitHub  
*Project II: Adversarial Machine Learning | Supervised by Aleksander Madry* Jan. 2019 – Jun. 2020

## SKILLS

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- **Languages:** C/C++, Python, Java, Go, Rust, JavaScript, HTML/CSS, SQL, ARM and x86 assembly, Bash, Markdown, LaTeX
  - **Frameworks:** Django, Node.js, Express.js, Hugo, Bootstrap
  - **Technologies and Developer Tools:** Git, Unix, Docker, Packer, AWS, GCP
  - **Security Tools and Techniques:** Burp Suite, Wireshark, Metasploit, Network Scanning, Security Research, Vulnerability Disclosure

## PUBLICATIONS

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**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

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- 3rd place team, National CCDC, 1st place, Western Regional CCDC (2022); 2nd place, NCCDC Wild Card and WRCCDC (2021)
  - USA Computing Olympiad, Gold Division (2018 – 2020)