

# ADITYA SALIGRAMA

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## EDUCATION

### Stanford University

Stanford, CA

M.S. in Computer Science, Computer and Network Security

Feb 2023 – Jun 2025

B.S. in Computer Science, Systems | GPA 3.92

Sep 2020 – Jun 2024

- Coursework includes Cryptography, Computer and Network Security, Modern Internet Infrastructure, Distributed Systems, Parallel Computing, Networks, Databases, Embedded Operating Systems, Compilers, Algorithms, Trust & Safety, ML, NLP, Blockchain

## EXPERIENCE

### I. Work experience

#### Software Engineering Intern at Cloudflare

Jun 2024 – Sep 2024 at Austin, TX

- Created RPC clients for debugging Cloudflare One routing services that establish L3 and L4 proxy tunnels and send test traffic
- Significantly reduced time to resolve customer-escalation and internal issues across engineering and customer support teams

#### Software Engineering Intern, Security and Privacy at Verkada

Jun 2023 – Sep 2023 at San Mateo, CA

- Established automated firmware & network security testing program and Linux hardening standards for physical security devices
- Test implementation and enforcement substantially reduced device attack surface and improved security and compliance posture

#### Software Engineering Intern at Lacework

Jun 2022 – Sep 2022 at San Jose, CA

- Engineered end-to-end virtualization of benchmarking system on Spark, reducing data import time by 20x vs. Snowflake
- Contributed enhanced Snowflake and Spark parsing support to SQLGlot, an open-source SQL parser and transpiler; 3 PRs merged

#### 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
- Code now open-source; functionality used to detect and patch client software with Log4Shell vulnerabilities (10.0 severity CVE)

#### Research Science Institute Intern at Akamai Technologies

Jun 2019 – Aug 2019 at Cambridge, MA

- Engineered Go realtime garbage collection monitoring system used for profiling and optimization across Akamai Labs codebase

### II. Teaching, leadership, and competition experience

#### Instructor, CS 40 Cloud Infra. & Scalable Application Deployment at Stanford University

Jan 2024 – Mar 2024 at Stanford, CA

- Taught Stanford's first-ever intro cloud computing course. Created lectures, IaC assignments, and AWS course management infra

#### President, CCDC Linux & Cloud Lead, and CPTC Web Lead at Stanford Applied Cyber

Jan 2021 – Present at Stanford, CA

- Led Linux, AWS, web security defense & offense on 2023 National CCDC Champion team & 2024 Global CPTC 2nd place team
- Found & disclosed security vulnerabilities to 20+ startup apps, leading to data-protecting fixes; founded Stanford Security Clinic
- Directed workshops on vuln-finding (webapps, Firebase, Gradescope, GraphQL, AWS) and product security for entrepreneurs

#### Teaching Assistant, Hack Lab (Alex Stamos & Riana Pfefferkorn) at Stanford University

Sep 2022 – Dec 2022 at Stanford, CA

- Built course GCP infra at scale; created web & network security labs for 170-student intro cyber security, law, and policy course

### III. Research projects and experience

- Software patching dynamics (Stanford)**: Exploring how and when organizations patch vulnerable software on the internet
- Parallel, human-interpretable ML (Harvard)**: Achieved linear speedup on CORELS increasing tractability of 250k+ sample datasets; short paper featured at SysML 2018 (57% acceptance rate); implemented R API and Node.js web UI
- Rust concurrency evaluation (MIT)**: Developed fast, lock-free Rust concurrent hashmap with 150+ stars on GitHub
- Political polarity detection (Independent)**: Implemented novel two-step classification scheme for political bias increasing accuracy on long articles by 13%; paper published at AAAI 2020 student abstract program (48% acceptance rate)

## SKILLS

- Languages**: C, C++, Python, Java, Go, Rust, JavaScript, HTML/CSS, SQL, ARM and x86 assembly, Bash, Markdown, LaTeX
- Frameworks**: Django, FastAPI, SQLAlchemy, Node.js, React.js, Next.js, PyTorch, Tensorflow, Hugo, Bootstrap
- Technologies and Developer Tools**: Git, Unix, Docker, Kubernetes, Temporal, Packer, Terraform, Osquery, AWS (incl. CDK), GCP
- Security Tools and Techniques**: Burp Suite, Wireshark, Metasploit, Network Scanning, Security Research, Vulnerability Disclosure

## 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 (now MLSys) Conference*, 2018.

## SELECTED AWARDS AND HONORS

- CCDC**: 2023 National and Western Region Champion, 2022 National 3rd Place and Western Region Champion
- CPTC**: 2023-24 Global 2nd Place and Western Region Champion