

SURYA KESWANI

Senior Software Engineer specializing in global infrastructure and reliability.

[in suryakeswani](#) [@sukeswan](#) [🌐 suryakeswani.ai](#)

WORK EXPERIENCE

Havery [↗](#)

Senior Software Engineer

2025 – Present

San Francisco, CA

- AI Infrastructure

TikTok [↗](#)

Senior Software Engineer

2024 – 2025

San Jose, CA

- Global Data Infrastructure & Site Reliability
- US Classic Storage lead - managing 7EiB of TikTok data globally
- Leading project Alpha - a migration project that will save the company \$257M+ in cloud costs annually
- In the top 9% of TikTok oncall personnel - working with 400+ customers to solve critical data-infra issues

Amazon [↗](#)

Software Engineer - AWS EBS

2022 – 2024

Sunnyvale, CA

- Played key roles in new feature launches, including the new [C7g\(n\) EC2 instance](#)
- Developed new cryptographic features that increase performance for AWS customers
- Managed & improved CI/CD infra, increasing successful deployments to the worldwide fleet of 7M servers
- Participated in oncall, managed customer tickets, investigated & remediated critical software defects
- Built new developer tools for increased confidence in new commits, including automated code coverage tools & new code testing features

Cyber Security Consultant [↗](#)

Self-employed

2020 – 2022

Santa Cruz, CA

- Built technical cybersecurity playbooks for a private equity firm & its portfolio companies
- Worked with security executives to author a book covering the largest data breaches in history + executive strategy for information security
- Advised a detailed strategy for network, application, cloud, & data security

Augmented Design Laboratory [↗](#)

Research Intern

2019 – 2020

Santa Cruz, CA

- Worked with Professor Jim Whitehead conducting research for Ford Motors
- Developed a detailed satellite image dataset for image segmentation
- Built optimized clustering model to analyze road infrastructure dataset
- Contributions used in creating testing infrastructure for autonomous vehicles

EDUCATION

University of California, Santa Cruz [↗](#)

M.S Computer Science w/ Thesis

Santa Cruz, CA

University of California, Santa Cruz [↗](#)

B.S Computer Science w/ Thesis, Cum Laude & Honors in the Major

Santa Cruz, CA

Stanford University Online [↗](#)

Advanced Computer Security Certificate

Online

RESEARCH & PROJECTS

Improving Tree-Based Oblivious RAMs [↗](#)

- Studied state-of-the-art papers in the area of oblivious computation under Professor Ioannis Demertzis
- TreeORAM, PathORAM, RingORAM, & CircuitORAM are all multi-threaded for improved performance

Cryptographically Secure Messaging Interface [↗](#)

- Built cryptographically secure messaging platform
- Messages are hashed, digitally signed, & encrypted using SHA3-512, NIST P-521 Elliptic Curve & Simon Block Cipher
- Messages stored in text file in AWS S3 bucket for easy communication with another party