

Sankalp Ramesh

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EDUCATION

New York University

Masters of Science in Computer Science

New York, New York

Expected May 2027

University Of Massachusetts, Amherst

Bachelor of Science in Computer Science

Amherst, MA

May 2022

EXPERIENCE

ColorTokens, Inc

Member Of Technical Staff

New York, NY

May 2022 - May 2025

- Led the development of a feature to detect sensitive cloud access keys, credentials, and secrets using YARA and Go, resulting in a 10% increase in reported security flaws. Optimized performance to minimize additional overhead
- Hardened the XShield agentless platform by architecting an APT package repository and pipeline hosted on Azure; this minimized security vulnerabilities and improved patch deployment speed by 35%.
- Built initial policy framework for Cirrus cloud segmentation tool that allowed users to monitor network compliance and traffic as well as enforce policies and NSG rules for Azure workloads with 1000+ assets.

Bank Of America

Global Technology Summer Analyst

Chicago, IL

June 2021 - Aug 2021

- Developed an internal templating engine for Quartz entirely in Python, including a user-friendly UI, streamlining workflows and boosting productivity.
- Worked in an agile environment with daily standup meetings while learning more about Python and SQL in a large professional environment while adding code optimizations.

PROJECTS

Lind-wasm

June 2025

- Currently working on the Lind-wasm project under the Secure Systems Lab at NYU Tandon under the guidance of Alice Wen and Prof. Justin Cappos. My current efforts are in compiling the rustc compiler to WebAssembly modules that can run in the custom lind-wasm runtime.

Chase Web Game

May 2025

- Designed a novel web-based game with HTML5 and Javascript with a basic adversarial AI.
- Revamped legacy UI using Next.js and Bolt.new to create a more engaging and modern UI.

COVID-19 Dashboard

May 2020

- Developed a web platform to visualize and track COVID-19 statistics across all countries, aiming to provide real-time data insights. Utilized Chart.js to create interactive and engaging data visualizations via graphs.
- Leveraged Python and Pandas for data aggregation, manipulation, and analysis, sourcing information from JHU.
- Employed GitHub Pages with GitHub Actions to host the website as well as download the latest data every 24 hours.

EULEX Web App

June 2016

- Leveraged advanced HTML5, CSS and JavaScript for an intuitive web application designed to aid in learning to read by interactively breaking down words into syllables.
- Designed and implemented a novel JavaScript-based algorithm for syllable segmentation in text to create interactive and effective web content

Cell Instance Segmentation

Dec 2021

- Completed a final project for CS 682 (Neural Networks) on the analysis and comparison of various R-CNN models for neuronal cell instance segmentation via improvised training methods.

SKILLS

Programming Languages: Python, Go, Rust, JavaScript, SQL, C/C++, Java, Typescript

Technical Skills: AWS, Azure DevOps, Kubernetes, K9, Helm, AWS, Cursor, Vercel