Sankalp Ramesh

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EDUCATION

New York University	**New York, New York**
Masters of Science in Computer Science	Expected May 2027
University Of Massachusetts, Amherst	**Amherst, MA**
Bachelor of Science in Computer Science	May 2022

EXPERIENCE

ColorTokens, Inc — **New York, NY**
Member Of Technical Staff — May 2022 - May 2025

- Led the development of a feature to detect sensitive cloud access keys, credentials, and secrets using YARA rules and Go, resulting in a 10% increase in reported security vulnerabilities. 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 by ensuring consistent patch updates and "air-gapping" customer devices.
- Built initial policy framework for Cirrus cloud segmentation tool that allowed users to monitor network traffic and enforce policies and NSG rules for Azure workloads with 1000+ assets.
- Owned and delivered CTConfig, an Azure-authenticated onboarding utility that reduced customer device registration time by 50%, handling all subsequent customer deployments and registrations of XShield Agentless appliances, including High Availability support for appliance clusters. Participated in customer calls with field engineers to resolve registration issues.
- Built scalable microservices for XShield in Golang featuring Redis-based caching layers and asynchronous API implementations, optimized database performance for High Availability support between agentless appliance groups.

Bank Of America — **Chicago, IL**
Global Technology Summer Analyst — June 2021 - Aug 2021

- Developed an internal templating engine for Quartz entirely in Python, including a user-friendly UI, streamlining workflows and boosting productivity by allowing easier addition of data to the Quartz platform.
- Worked in an agile environment with daily standup meetings while learning more about Python and SQL in a large-scale professional environment while adding code optimizations. Received a full-time return offer for my efforts.

PROJECTS

Lind-wasm — **June 2025**

- Currently working with the Secure Systems Lab at NYU on the Lind sandbox project.
- Developing a cross-compilation toolchain and pipeline for the Rustc compiler in the Lind runtime. Resolving linking issues between the Rust standard library and the custom Lind sysroot implementation for WebAssembly targets.

Chase Web Game — **May 2025**

- Built an interactive web game where players navigate a grid while evading an adversarial game agent, a red dot.
- Revamped legacy UI using Next.js and Bolt.new to create a more engaging and modern UI, and deployed using Vercel.

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.

SKILLS

Programming Languages: Python, Go, Rust, JavaScript, SQL, C/C++, Java, Typescript
DevOps: Docker, Azure DevOps, AWS, Kubernetes, Helm, Vercel, Prometheus
Databases: PostgreSQL, MongoDB, CosmosDB, MySQL, DynamoDB