Sankalp Ramesh

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Work Experience

ColorTokens Inc   New York City, 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 while optimizing performance to minimize additional overhead
- Hardened the XShield agentless platform by architecting an APT package repository and pipeline hosted on Azure, minimizing security vulnerabilities by ensuring consistent patch updates and air-gapping customer devices
- Built the initial policy framework for the Cirrus cloud segmentation tool, allowing users to monitor network traffic and enforce policies and NSG rules for Azure workloads with over 1000 assets
- Owned and delivered CTConfig, an 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, and optimized database performance for high availability support between agentless appliance group

Bank Of America   Chicago, IL
Global Technology Summer Analyst   Jun 2021 - Aug 2021
- Developed an internal templating engine for Quartz entirely in Python, including a user-friendly UI, streamlining workflows and boosting productivity by enabling easier addition of data to the Quartz platform
- Worked in an agile environment with daily standup meetings, learning Python and SQL in a large-scale professional setting while contributing code optimizations and received a full-time return offer for strong performance

Education

New York University *M.S in Computer Science Expected May 2027*
University Of Massachusetts, Amherst *B.S. in Computer Science*

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

Projects

Lind-wasm
- Working with the Secure Systems Lab at NYU on the Lind sandbox project
- Developing a cross-compilation toolchain for the Rustc compiler targeting WebAssembly, resolving critical linking issues between Rust standard library and the custom Lind sysroot to ensure runtime compatibility with Lind-wasm

Chase Web Game
- 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
- Developed a web platform to visualize and track COVID-19 statistics globally 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