

Sankalp Ramesh

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EDUCATION

University Of Massachusetts, Amherst

Bachelor of Science in Computer Science, GPA: 3.51

Amherst, MA

Aug. 2018 – May 2022

Awards and Distinctions

Chancellor's Scholarship

Dean's List

Amherst, MA

Aug. 2018 – May 2022

May. 2019 – Dec 2020

COURSEWORK

Introduction to Algorithms (CS 311) - **Top 5%**, Computer Systems Principles (CS 230), Mobile Health Sensing and Analytics (CS 328), Artificial Intelligence (CS 383), Machine Learning (CS 589), Introduction to Software Engineering (CS 320), Neural Networks (CS 682)

SKILLS

Programming Languages: Python, Go, JavaScript, SQL, C/C++, Java, HTML/CSS

Technical Skills: Redis, PostgreSQL, MongoDB, Azure DevOps, Kubernetes, K9, Helm, AWS, RCA, Agile

EXPERIENCE

ColorTokens, Inc

Software Developer, Member Of Technical Staff

New York, NY (Remote)

May 2022 - Present

- 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.
- Designed, implemented and managed a secure APT package repository and pipeline hosted on Azure, utilizing containerization and GPG key encryption. This solution streamlined Debian package distribution and ensured secure updates and patches of binaries on the XShield agentless platform, demonstrating proficiency in cloud-based data storage solutions, data security, and system optimization.
- Designed, developed and deployed an onboarding utility, streamlining the registration process and providing flexible control over networking and rule configurations.

Bank Of America

Global Technology Summer Analyst

Amherst, MA (Remote)

June 2021 - Aug 2021

- Developed an internal templating engine for Quartz entirely in Python, including a user-friendly UI, streamlining workflows and boosting productivity.
- Thrived in a collaborative team environment, contributing to a versatile set of tickets that required cross-functional coordination and teamwork. Actively engaged in brainstorming sessions, shared insights and data-driven strategies, and provided constructive feedback to the team.

PROJECTS

Cell Instance Segmentation | [Project Link](#)

Sept 2021 – 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.

COVID-19 Dashboard | [Project Link](#)

May 2020 – June 2020

- Developed a dynamic 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 | [Project Link](#)

May 2016 – Aug 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.