Hemanth Rao Karade Nagendra

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EDUCATION

University of Colorado

Boulder, USA

Aug 2022 - May 2024

Email: hraokn@gmail.com

Master of Science, Computer Science; GPA: 4.0/4.0

R.V College of Engineering

Bangalore, IND

• Bachelor of Computer Science and Engineering; GPA: 8.49/10

Aug 2014 - May 2018

SKILLS SUMMARY

- Programming Languages: Python, Golang, JavaScript, Typescript, Java, Perl, C, C++, PHP, Bash, HTML5, CSS3
- Frameworks: Node.js, Express.js, Flask, Django, React.js, GraphQL, Spring, RabbitMQ, Kafka, Pandas, Numpy, Perl Moose
- Software & Tools: Docker, Kubernetes, Helm, Terraform, Nginix, Jenkins, Salesforce CRM, AWS, GCP, Azure, Linode, Sequelize, Sqlalchemy, Swagger, SAML, OAuth, SSO, GIT, Perforce, Grafana, Ansible, Firewalls, Tenable, Infoblox NIOS & Netmri
- Databases: MySQL, PostgreSQL, MongoDB, Redis

WORK EXPERIENCE

Akamai Technologies

Senior Software Engineer

May 2024 - Present

- Enterprise Application Access: Leading design and development of a key component of Zero Trust Network Access (ZTNA) solution. Architecting scalable systems, implementing advanced security features, enhancing stability, and creating a flexible framework for enterprise private application access control based on identity and context
- Spearheading the development of firewall controller designed to regulate inbound and outbound traffic through the Linode Akamai cloud platform
- o Designing and developing policy engine as an authorization service to Akamai cloud and other security products

Arista Networks

Software Engineer Intern

May 2023 - Aug 2023

- OpenBMC: Worked on enhancements on the linux distribution for management controllers used in devices such as servers and top of rack switches, also streamlined the software deployment and delivery process
- o Contributed to enhancing CI & CD processes to seamlessly integrate openBmc into Arista's development workflow

Akamai Technologies

Senior Software Engineer

Oct 2021 - Aug 2022

- o The Bulwark Network Security Project: Spearheaded the end-to-end development of an extremely scalable full-stack application for Akamai's corporate network, single-handedly designing and developing it. The application streamlines firewall policy implementation across 150+ locations, managing request flow, automating approvals, implementing firewall policies, and providing visual dashboards in a distributed environment. This effort results in saving ≈15,000+ hours of manual work annually for the network operations team
- Salesforce sandbox post-refresh framework: Designed and developed a framework in python to automate sandbox post-refresh activities for ≈600 sandboxes annually and reduced sandbox refresh time from 3-4 days to under 6 hours

Software Engineer II

Oct 2019 - Sep 202.

- o Falcon: Architected and developed a scalable full-stack application and deployed in a distributed environment. This centralized user interface benefits cross-organizational QA teams, streamlining web-based automation, API, and database testing without the need for manual script writing. This optimization results in annual time savings of ≈5,000 hours
- Patching tool: Designed and implemented a robust solution for identifying, managing, and patching vulnerabilities across a network of 10,000+ virtual machines. The system's scalable architecture seamlessly accommodates various device types, contributing to annual savings of ≈5,000 hours in manual patching for the IT Operations team

Software Engineer I

Jul 2018 - Sep 2019

- Citadel: Engineered a Perl-based framework for Salesforce metadata deployment, optimizing the process by fetching metadata from lower environments and expediting deployment to higher stages. Significantly reduced deployment time from 3 days to under 15 minutes, enhancing overall efficiency
- VM Build Automation: Automated UNIX virtual machine build and provisioning workflow, seamlessly integrating with Salesforce, Infoblox NIOS, and VMware Vsphere. Achieved an annual time savings of ≈300 hours
- Developed scripts and ansible playbooks to automate manual tasks performed by system, network, and IT operations team.

Software Engineer Intern

Jan 2018 - Apr 2018

• HostDB Tool: Designed and developed a LAMP Stack application to efficiently retrieve details of ≈10,000 servers, process data, and present results in the desired format. Realized annual time savings of ≈500 man-hours