Rahul Chilukuri Tech Lead, Mentor, Engineer & Team member

Bachelor of Engineering, 2002-2006, Sathyabama Institute of Science & Technology, Chennai, India
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Summary

Software Engineer with 10+ years of experience and a demonstrated history of working in information technology for retail and managed security services industries. Diverse background leading projects and teams, aligning business goals with technology solutions to drive process improvements. Solid record of achieving project scope through exceptional team building, customer service and superior quality.

Key Skills

Java, REST, HTTPS, SQL, NoSQL, AWS, Kubernetes, Docker, Golang, GraphQL, JavaScript, jQuery, Git, Linux, Shell Scripting

Work Experience

11/2018 – Present Software Principal Engineer, SecureWorks Inc, Atlanta

- Lead the team's initiatives towards AWS Cloud Migration. Implemented an internal library to fast-track application deployments into AWS Cloud. This helped deploy multiple microservices to AWS within 3 months instead of a year
- Worked with the Voltron team to implement best practices around Kubernetes(k8s) platform, secrets, monitoring, and observability. Optimized AWS costs by right sizing memory, CPU for k8s pods, ec2 instances and minimizing resource usage
- Improved bottlenecks, addressed out of memory errors & memory leaks in REST APIs analyzing heap dumps
- Provided architectural guidance on breaking complex workflows into Counter Threat Platform (CTP) microservices now utilized by over 4500 Intrusion Detection Systems (IDS)/Intrusion Protection Systems (IPS) in the field
- Improved IDP/IPS registration process that helped reduce lead time by 90% right from barebone stage to field deployments
- Created a virtual machine to build IDS/IPS artifacts that brought down build time from 90 mins to 30 mins
- Integrated CTP microservices with API Gateway, allowing CTPx, access to modifying IDS/IPS configurations remotely
- Lead efforts on software export tracking, working with cross functional teams to be compliant with regulatory agencies
- Demonstrated to internal teams on product feature improvements and presented brown bag sessions to the team

06/2013 – 10/2018 Software Senior Engineer, SecureWorks Inc, Atlanta

- Enhanced spring security impersonation for Portal engineers to better troubleshoot issues that customers report
- Implemented responsive design for Threat Intel (TI) UX components enabling seamless experience across multiple devices.
- Implemented ratings for TI Articles and library documents helping customers prioritize their content on Portal
- Rewrote Lucene indexing to improve search performance & accuracy of TI articles and library documents
- Implemented Global search and UI widgets, minimizing user interaction in Portal and accessing relevant content quickly
- Integrated email processing of TI articles with Notification systems. Built caching of contacts, clients, and locations to improve performance in intel-batch to send email notifications. Troubleshooted and solved computation intensive email delivery issues to several end users, that were causing Out of Memory errors, involving huge number of images
- Created portal dashboards using D3.js animations to represent geographically various attack sources, vectors & types
- Implemented retrieval of counter measures from blobstore servers, that are crucial to customer premise equipment
- Rewrote vuln services from C++ to Java to get rid of unsupported legacy systems and incorporated into existing backend
- Modularized monolithic code structures for better maintenance, improved unit test coverage across all REST APIs

11/2008 – 05/2013 Tech Lead, TCS Ltd, Atlanta

- Lead a team of 10 engineers towards delivering enterprise wide high-visibility Common Ordering System to interact with Sterling Order Management Systems and Enhanced Special Services
- Designed & developed Buy Online Pickup in Store, eCatalog, Asset protection, Perpetual Accuracy and Store transfers

06/2006 – 10/2008 Assistant Systems Engineer, TCS Ltd, Kolkata, India

- Implemented solutions for New organizational hierarchical changes for Somerfield stores, adding business partners, Gap analysis tool. These systems helped clients better manage organizational structure and product inventory in stores.
- Responsible for data modeling and implementing queries/stored procedures with proper optimization and performance tuning. Optimized a java batch that processes store inventory runtime from 90 mins to 5 mins