Resume

Basic information

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Software Summary

Languages (Professional): Go, Typescript/NodeJS, Java, Python, Bash.
Languages (Proficient): C/C++, Groovy, Ruby.
Frameworks: Serverless, Flask, Spring, JUnit, Mockito, Hibernate
Tools: Cloudformation, Docker, Ansible, Jenkins, SumoLogic, NewRelic, PagerDuty, Packer, Terraform, Vagrant
Databases/Eventing: Kafka, SNS, SQS, ClickHouse, S3, DynamoDB, BigQuery, MySQL, Postgres
Other: Linux {Amazon Linux,Ubuntu}, AWS {EC2,VPC,Route53,IAM,ALB,Cloudfront,Cloudwatch,Lambda,StepFunctions, ECR,EMR}

Work experience

July 2021 - Present	**Principal Software Engineer/Senior Engineering Manager, Segment Twilio**
	• Wrote software design docs for our experimentation platform, channel subcription platform, and goals analytics feature.
	• Owned and supported architecture design across 3 teams (19 engineers/3 managers) by working with senior engineers on design.
	• Worked as tech lead for the Marketing Analytics team for a brand new product, Twilio Engage, an omnichannel marketing tool (email, sms, whatsapp, push).
	• Lead architecture for the system for Pilot, Beta, and GA phases for the product.
	• Made changes to support our product within our backend NodeJS/Golang service.
	• Built out our ingestion portion which ingested data into ClickHouse to be queried from our Node service and frontend. This was built handle scale at 22 billion messages per day
	• Tech stack: NodeJS/Typescript/MySQL/Golang/Redis/ClickHouse/BigQuery/Kafka/Datadog/ECS/EKS
January 2020 - July 2021	**Team Lead, Lead Software Engineer, Unified Communications Genesys**
	• Work primarily focused on integrations with third party applications, such as Microsoft Teams, Zoom, and RingCentral.
	• The team's goal was to integrate our chat platform with external services including chat, presence, video, and telephony.
	• Developed backend serverless service that was required for OAuth2 authentication for the third party applications.
	• Created primary email notification sending microservice required to handle

current scaling issues.
• Created serverless email receiving service for QA so emails can be verified easily by pulling the email MIME message from S3.
• Used SumoLogic for log aggregation and a mix of NewRelic and CloudWatch metrics for monitoring.
• Monitoring fed into PagerDuty alerts for which our team was directly responsible.
• Worked on tooling to help finalize a fully automated continuous integration pipeline that would automatically deploy the production build to 10 AWS regions.
• Helped build an internal plugin for the Serverless Framework that is now used by 40+ services in the company.
• Tech stack: Java/Spring Boot/DynamoDB/Redis/Kafka for non serverless projects, and AWS Lambda/NodeJS/Typescript/DynamoDB for Serverless projects.

July 2017 - January 2020	**Senior Software Engineer, Devops**
	Genesys

• Helped develop tools to build out the company's CICD pipeline, track cloud spending, and increase developer productivity through tooling.
• Modernized our tooling that allows SSH via principals mechanism in Python using low level socket programming techniques.
• Led architectural efforts to scale our internal Jenkins CI from 20 nodes to 600+ nodes using AWS Auto Scaling and Go.
• Helped to create the company standard common pipeline library for Jenkins.
• Used Angular 2+ and Flask to create a tool to automatically provision access for onboarding developers.
• Tech stack: Python/Golang/DynamoDB/S3/Flask/Lambda/Postgres.

January 2015 - July 2017	**Senior Software Engineer, Voice**
	Interactive Intelligence/Genesys (Acquisition)

• Worked as part of a greenfield VOIP telephony team.
• Helped migrate our datacenter infrastructure to an AWS cloud based architecture.
• Worked on a number purchasing portal to enable customers to purchase and/or port numbers to have working on a real phone within minutes.
• Created a common Jenkinsfile DSL to easily standardize deployments across our 10+ Spring Boot microservices.
• Worked on billing statistics for our system utilizing Kafka, Avro, S3, and Pig to create queryable call data.
• Architected and handled operational support for both of our Storm and Druid clusters.
• Tech stack: Java/Spring Boot/DynamoDB/Redis/Postgres/Storm (Trident)/Druid/Hadoop (Pig)/Kafka/S3.

October 2014 - January 2015	**Software Application Developer**
	Red Hat

• Worked as part of a maintenance/development of 30+ web based apps.
• Most applications used Java in conjunction with varying versions of Spring and/or Struts.
• Developed an AngularJS application during a day long hackfest now in development within the team.

August 2011 - October 2014	**Software Consultant**
	Orasi

• Developed company wide time off tracking tool with Ruby on Rails.
• Worked with multiple companies on automated testing and tooling.

Notable Github contributions

Serverless Framework (NodeJS) -- Kafka event support: https://github.com/serverless/serverless/pull/8784Serverless Framework (NodeJS) -- Context support: https://github.com/serverless/serverless/pull/8652python-semantic-release (Python) -- allow the use of .pypirc: https://github.com/relekang/python-semantic-release/pull/325paramiko (Python) -- Windows OpenSSH support: https://github.com/paramiko/paramiko/pull/1837cucumber (Ruby) Added `--init` to CLI tool -- https://github.com/cucumber/cucumber-ruby/pull/699

Education

August 2006 - May 2011   **BS, Computer and Systems Engineering/Computer Science**
Rensselaer Polytechnic Institute
Dual degree in Computer Science and Computer and Systems Engineering