

# Kirsten Ruge

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## Software Engineer

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*AI Enthusiast | Kubernetes Infrastructure Expert | Experienced Backend Engineer*

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## Professional Summary

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I am a versatile software engineer with a strong background in both development and infrastructure. My experience spans from full-stack development to DevOps and platform engineering, with a recent focus on Golang and TypeScript. I excel in creating efficient, scalable solutions and enjoy tackling complex problems. My complementary passions for writing code and collaborating with other developers make me well-suited for roles that bridge software development and infrastructure management. I'm particularly interested in opportunities that allow me to contribute to innovative projects, especially in the realm of AI and emerging technologies.

## Skills

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Golang

TypeScript

Python

Java

PHP

React

Node.js

Kubernetes

Terraform

Ansible

AWS

Azure

CI/CD

Jenkins

GitHub

Linux

Bare Metal K8s

DevSecOps

## Work Experience

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### Lead DevOps Engineer -Asset Reality, UK

*July 2024 - September 2024*

- Spearheaded platform and infrastructure development for a growing crypto asset seizure platform

- Developed modern Terraform modules and managed live infrastructure repositories
- Automated new environment deployments and documented disaster recovery procedures
- Improved developer experience and cross-trained team in Terraform and AWS CLI <sup>2/3</sup>
- Contributed to backend services in Golang, integrating with BTC and ETH SDKs

## **Staff Software Engineer (TypeScript) - Lifeshack**

*June 2024 - August 2024*

- Joined as a versatile software engineer for a new AI job-search tool
- Fixed numerous frontend bugs using TypeScript
- Extended the existing codebase to integrate with additional job boards
- Participated in marketing and fundraising strategy meetings

## **Senior Platform and Infrastructure Engineer - Rally Health/Optum**

*May 2022 - July 2023*

- Managed production and dev Kubernetes platforms on EKS (AWS)
- Implemented Infrastructure as Code using Terraform and Ansible
- Designed advanced networking solutions and performed AWS administration
- Overhauled monitoring and alerting systems for 25+ production and 50+ development Kubernetes clusters
- Refined and executed Kubernetes upgrade and Linux patching processes

## **Senior DevOps Engineer - Scuba Analytics**

*July 2023 - May 2024*

- Supported a managed business analytics platform with C++ and Python backend
- Developed tooling for production deployments and guided SREs through Terraform
- Led infrastructure design and build-out of new ML service offering
- Implemented self-managed Kubernetes with Helm and ArgoCD for configuration management

## **DevOps Engineer - Bind/Surest**

*May 2020 - June 2022*

- Developed and supported production and development environments in ECS and EC2
- Extensive work with Terraform, IAM/identity management, and Kafka
- Led automation of CVE management and Linux server patching

## Software Engineer - Kipsu

*January 2019 - May 2020*

- Full-stack software development using PHP
- Led major infrastructure projects, including building separate self-contained infrastructure for international clients
- Automated production deployment with Jenkins
- Mentored junior developers and handled Linux server maintenance

## Automation Engineer - RedBrick Health

*January 2017 -August 2018*

- Automated file QA and operational tasks using Python and Java
- Developed a new QA framework using Spring
- Created and maintained Jenkins pipelines
- Developed internal tools for day-to-day operations using C#/.NET

## Open Source Contributions:

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**ghostcall** -<https://ghostcall.online>

- Contributing to a novel p2p networking solution using mobile devices as nodes
- Solo developing a new feature the web conferencing app to add real time audio transcription and sentiment analysis to potentially help users with Autism participate in video and audio calls more easily.

## Education

- B.S. in Evolutionary Biology, Stony Brook University, NY (2004-2008)
- Java Bootcamp -The Software Guild, Minneapolis (2016)