Bharat Agarwal

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SKILLS

Languages
Golang, Java/Kotlin, C, Bash
Assembly, Ruby, JavaScript

Backend frameworks
Spring, Cadence, Node/Express
Sinatra, Rails, GraphQL

Tooling
AWS, Docker, Containerisation, Pipelines,
Chaos Toolkit, Deployment Pipelines

Technical Writing
Case studies and proposals to
influence engineering decisions

EXPERIENCE

Apr 2020 – Aug 2022
Bangalore, India

Atlassian, Software Engineer
As part of the Jira Migration ↗ Platform team, I:
- Maintained a mission critical service orchestrating migrations between Jira Server and Jira Cloud. This used Kotlin and Spring Boot.
- Handled high severity incidents as part of the on-call roster. Made extensive use of observability tooling, including SignalFX and Splunk to investigate bugs.

As part of the Resilience Engineering team, I:
- Increased adoption ↗ of chaos engineering experiments by automating our 'war game' process.
- Integrated the Chaos Toolkit as a fault injection tool into our internal PaaS. We built the service for doing so using Golang, and using the AWS SDK.
- Reduced number of engineers required to run experiments, by consolidating metrics. Combined load testing, SRE 'golden metrics' and event-tracking into one place in SignalFX.
- Designed a 'network blackhole' fault to be injected using iptables. Propagated this using AWS Systems Manager (SSM).
- Navigated SOX and SOC compliance requirements in building a pipeline to connect our REST API to the the GraphQL interface of our service registry.

Initiatives:
- Developed a collaborative graph-based user interface for Confluence, our enterprise wiki offering. My team got a patent ↗ for this.
- Drove the Inner Source Working Group, advocating for open-source style documentation practices for the company's internal services

Oct 2019 – Mar 2020
Remote

Mothership, Co-creator & Software Engineer ↗
- Mothership is an open-source PaaS for small application
- We designed this to be a self-hosted replacement for third-party deployment platforms like Heroku and AWS Beanstalk.
- Programmatically provisioned servers on DigitalOcean with Docker Machine, and used Docker Swarm for orchestration
- Containerised applications for machine instances using cloud-native buildpacks
- You can read the case study for Mothership at https://mothership.live ↗

Sep 2018 – Sep 2019
Bangalore, India

Self Employed, Full Stack Developer
Developed several personal and open-source applications with technologies such as Ruby, Node.js, Rails, React and Sinatra.

Nov 2016 – Aug 2018
Bangalore, India

Self Employed, Architect ↗
Collaborated with the 'Disorient' camp designing spaces for Burning Man '17 and '18.

EDUCATION

2009 – 2015

School of Planning and Architecture, New Delhi, B. Arch