

Mishuk Dutta

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Languages: Python, Java, Kotlin, JavaScript, C++, Golang, Bash, Lua

Frameworks: Django, Flask, React, NodeJS, SpringBoot, Dropwizard

Tools: Docker, Terraform, AWS, Consul, Unix, Datadog, Splunk, pulsar, Envoy, PostgreSQL, DynamoDB, NoSQL, Redis

Work Experience

Toast Inc, Remote — Senior Software Engineer, Developer Platform

February 2022 – Current

- Significantly improved in-house development & productivity tools for orchestrating Docker-based service stacks with 350+ active engineers (by 60%) and developed extended features for it.
- Led multiple cross-team initiatives to create a new productivity tool that scales and speeds up development and testing infrastructure (AWS), resulting in a 100x capacity increase, 50% development time reduction, and a minimum \$200,000 cost savings a year. (Potentially >\$450,000 after full adoption)
- Modernized Toast's testing Cloud Infrastructure and CI/CD pipelines using Terraform, Ansible, Packer, and re-useable Jenkins libraries, reducing E2E testing time by 25% and increasing E2E test adoption.
- Built observability dashboards using Splunk and Datadog to monitor tools and container health, track service logs, and alert users during degradation.
- Implemented Gradle tools to verify microservice's API specs as a part of automation using open-source projects and contributed to some of them (e.g. OpenApi-diff).
- Developed microservices using REST protocol and messaging queue (pulsar) that tracked internal git metrics.

Revel Systems, Atlanta, GA — Senior Software Engineer (*Team Lead*), Core Platform

January 2019 – February 2022

- Led the design and implementation of Service Mesh, Discovery, and load balancing Infrastructure using Hashicorp Consul and open-source Fabio.
- Led the conversion of Revels' Web and IOS application's User, API, and App Authentication and Authorization to token-based auth by following OAuth2.0 protocol (via IdP Auth0.)
- Developed & deployed numerous REST API-based microservices (running Django/Flask/Express.js/React) in a distributed environment (AWS ECS).
- Developed and deployed
 - Single Page Applications (SPAs) using AWS CloudFront, Route53 and S3.
 - Serverless microservices using AWS Lambda, API-Gateway, DynamoDB, etc.
 - RESTful microservices using docker, ECS, EC2 load-balancer, Route53, etc.
- Designed and modernized legacy data stream handlers to handle high-volume data transactions using data frames, improving performance by up to 1500%.

Equifax, Atlanta, GA — Software Engineer Intern

January 2019 – February 2022

- Developed micro-services and RESTful APIs with Spring Boot for consumer services.
- Managed test server deployment and software releases through Jenkins.

Education

University of Georgia, Athens, GA

December 2018

Bachelor of Science in Computer Science (GPA: 3.58)

Certification in Data Science