

# AVINASH SINGH

Software Engineer

## CONTACT

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## OBJECTIVE

Seeking an opportunity where I can apply my extensive experience to develop scalable applications, foster technical innovation, and drive meaningful impact.

## SKILLS

### Cloud Infrastructure - AWS

#### COMPUTE DATABASES

- Batch
- EC2
- ECS
- Fargate
- Lambda
- Aurora
- Dynamo
- ElastiCache
- RDS
- Redshift

#### STORAGE ANALYTICS

- Backup
- EBS
- EFS
- S3
- Athena/Glue
- Data Pipeline
- Lake Formation
- Quicksight

### Languages

- Golang
- Java
- PHP/Hack
- Javascript/Typescript
- HTML
- CSS
- GraphQL
- SQL
- Python
- C/C++
- C#
- Swift

### Frameworks & Libraries

- AWS CDK
- React
- Relay
- AngularJS
- Bootstrap

## EMPLOYMENT

### Twitch.tv (Amazon)

San Francisco, CA & New York, NY

#### Software Development Engineer II

03/2022 - Present

- Developed application to enhance visibility into system dependencies, leveraging Golang profiling data to analyze interactions between various platforms
  - Utilized pprof to conduct in-depth analyses of system profiles, identifying critical caller/callee relationships for over 500 Twitch services
  - Constructed dynamic dependency graph by processing hourly data, providing insights into platform interactions and dependencies
- Designed and developed tooling to measure local build times across all Amazon Golang services, resulting in significant improvements to build times
  - Collaborated with senior principal engineers at Amazon and Twitch to identify and address inefficiencies
  - Collected data was used to optimize slower build segments and guide developers on best practices, identifying opportunity to save Amazon ~88 developer years per year
- Maintained critical high traffic platform (150,000+ monthly page views) that:
  - Enables engineers to manage their services
  - Streamlines key company workflows for customer experience team
  - Provides field level granular permission system for enhanced security
- Managed services to provide insights into availability and latency metrics for all Twitch services
  - Redesigned ETLs to process minutely availability data for > 400 services
  - Used Elasticsearch for data storage and aggregation, and ElastiCache to optimize data querying
- Led delivery of multiple org-level goals, spearheading initiatives that minimized operational toil and streamlined key team processes
- Enhanced maintainability of team's extensive portfolio by refactoring key projects, modernizing tech stack, and simplifying systems through architectural redesigns
- Presented at company-wide summits, mentored junior engineers, and managed intern, designing impactful intern project that aligned with team goals

### Meta Platforms, Inc.

Menlo Park, CA

#### Software Engineer

07/2020 - 03/2022

- Developed full-stack web applications for Meta's enterprise organization, streamlining complex accounting processes and enhancing operational efficiency
- Led engineering build of an auto-reconciliation tool, managing monthly payments worth millions of dollars
- Created resilient approval workflow system using Hack, React + Relay, and GraphQL that supported key accounting processes
- Managed and mentored intern, designing their intern project and overseeing implementation and operational responsibilities which resulted in a full-time job offer for the intern

#### Software Engineering Intern

09/2019 - 12/2019

- Developed full-stack web application enabling Meta's enterprise staff to issue one-click agreements to external partners
- Utilized ReactJS and GraphQL for the front-end and Facebook's Ent Schema framework in Hack for the backend

### Google LLC

Sunnyvale, CA

#### Software Engineering Intern

05/2019 - 08/2019

- Enhanced user experience on Apigee's SPAs using Angular, optimizing list loading with paginated fetch service to reduce First Meaningful Paint time
- Improved navigation by redirecting users post organization switch, and added tests using Jasmine, Puppeteer, and BackstopJS

### Salesforce.com, Inc.

Indianapolis, IN

#### Software Engineering Intern

05/2018 - 08/2018

- Resolved file transfer errors in Automation Studio by designing robust error-handling and retry logic, leveraging Splunk for diagnostics
- Contributed to the suite of automated tests and designed Splunk dashboards for monitoring

## EDUCATION

### PURDUE UNIVERSITY - WEST LAFAYETTE, IN

#### Bachelor of Science in Computer Science - May 2020

- Cumulative GPA - 3.88
- Relevant Coursework - Data Mining & Machine Learning, Compilers, Introduction to AI, Software Testing, Analysis of Algorithms, Information Systems, Data Structures, Software Engineering, Systems Programming, iOS Development, Web Application Development