Shreyas **Selvaraj**

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Experience

Amazon   *Remote*
SDE Intern   *Jan. 2022 - Present*

- Working on small team to build infrastructure for high impact enterprise service bus. Currently building system for handling requests using AWS API Gateway, Fargate, EventBus, and Step Functions.
- Created serverless event-driven batch processor to process millions of data points in minutes(2 million in 5 minutes). Uses AWS Step Functions, Glue, and Lambda.

Acqscale   *Remote*
SWE - Part Time   *Sep. 2021 - Present*

- Building A/B testing pipeline to dynamically build websites using Multi-Arm Bandits. Uses Shopify's Hydrogen, Cloudflare, and TensorFlow.
- Created platform to generate ads dynamically using Facebook Marketing API, Contentful CMS, and Flask.
- Built centralized payment system using Stripe Connect, webhooks, and GCP.

Tesla   *Remote*
SWE Intern   *Jun. 2021 - Jan. 2022*

- Facilitated large code migration to GitHub by rebuilding fundamental workflows in the build and release process, such as creating/monitoring deployments, handling weekly/monthly releases of applications, etc. to implement GitHub APIs(GraphQL and REST).
- Implemented ADFS SSO(single sign on) for various Tesla internal applications and helped integrate ADFS SSO for Jenkins servers.
- Worked on achieving zero downtime during weekly and monthly releases. Made production MySQL jobs run 250% faster.

Eliqs   *Remote*
SWE   *Jul. 2020 - May 2021*

- Completely redesigned Cart functionality and Checkout flow on live site being used by thousands of consumers.
- Created serverless, event-driven ETL pipeline to automatically poll for, normalize, store, and handle new purchases and call Facebook's Conversions API. Uses Pub/Sub, Cloud Storage, BigQuery, and Cloud Functions.
- Created live custom can design page to interface with all of the customizable products.
- Created order tracking website being used by thousands of consumers.

Commvault   *Tinton Falls, NJ*
SWE Intern - Part Time   *Sep. 2018 - Feb. 2019*

- Created deduplication simulation software in Python for testing CommVault databackup procedures. Used by product testing team to check compatibility with existing codebase after updates to products.

Projects

Distributed Search Engine | *Node JS, React JS, GraphQL/Apollo, Elasticsearch, Redis, Kubernetes, Puppeteer*

- Distributed search engine that concurrently scrapes one million top domains and handles search queries using Elasticsearch.
  Link: https://github.com/shreyas-selvaraj/search_engine

Skills

Programming	Python, JavaScript, TypeScript, OCaml, C, C#, Bash
Front-end	React JS, Next.js, Gatsby, Apollo
Back-end	Node JS, GraphQL, MongoDB, PostgreSQL, DynamoDB, Flask, ASP.NET
DevOps	AWS, GCP, Docker, Kubernetes, Redis, Elasticsearch, Git, Jenkins, Kafka, Netlify
Misc.	React Native, Jamstack, Google Tag Manager, Google Analytics, Linux

Education

University of California, Los Angeles   *Los Angeles, CA*
B.S. Computer Science, 3.53/4.0   *Sep. 2019 - Jun. 2023*

- Formal Languages and Automata Theory, Algorithms, Programming Languages, Database Systems, Computer Networks, Operating Systems, Computer Graphics