Shreyas Thirumalai

❦ **Portfolio** ❦ **Github** ❦ **LinkedIn**

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EDUCATION

- **NIT Trichy** — Tiruchirappalli, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 9.1/10.0 — *Jul 2017 - Jun 2021*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Cryptography, Automata, Networking, Databases*

SKILLS SUMMARY

- **Programming Languages**: Java, JavaScript, Python, Dart, SQL, Bash
- **Frameworks**: Apache Kafka, Apache Spark, ReactJS, Redux, Flutter, AG-Grid, HighCharts, GraphQL, Git
- **Testing Frameworks**: JUnit, Jest
- **Languages**: English (Fluent), Kannada (Fluent), Hindi (Fluent), Tamil (Fluent), Spanish (Elementary)

EXPERIENCE

- **Glide Systems** — Remote, US
  Senior Software Engineer — *September 2023 - Present*
  - Working in an early-stage startup making Product Lifecycle Management software in the manufacturing and semiconductor space
  - Worked alone on delivering a PoC of a Bill-of-Materials Management tool for the Semiductor Industry using the polymorphic database TypeDB. Wrote the UI (React, Typescript, Websockets, Tailwind, MUI, AgGrid) and backend services (Java, SpringBoot)
  - Rewrote the landing site for the company using NextJS and TailwindCSS
  - Contributed to several backend microservices of the platform written using Quarkus and SpringBoot with a Neo4J database and the frontend that uses Single Spa React + MUI + Typescript + Ag-Grid
  - Refactored the Microfrontends-oriented UI codebase to have stricter Typescript checks and supported cross microfrontend type safety
  - Worked on integrating a CAD Viewer within the UI using Techsoft3D.
  - **Languages/Frameworks**: Java, Quarkus, SpringBoot, RESTful APIs, React, Zustand, Redux, AG-Grid, MUI, Single Spa, Microfrontends, TypeDB, Neo4J

- **Goldman Sachs** — Bengaluru, India
  Analyst — *Jul 2021 - August 2023*
  - Working on a large-scale inventory management platform that is responsible for optimal handling of the firm's financial inventory. The platform consists of a linear optimizer (written in Mosek) supported by various microservices written in Java. Involved in the migration of a legacy platform to a newer platform written in Java
  - Worked on the development of streaming applications with capability to compute real-time aggregations from various data sources using Apache Kafka
  - Improved ease of blue-green deployment by eliminating manual reconciliation actions needed to transfer traffic from one deployment to the other. Wrote extensive MySQL queries for reconciling data between environments
  - Responsible for the development and productionization of an ETL pipeline (using Apache Kafka) to improve operational efficiency with annual transaction cost savings upwards of 2.5 Million USD. Project entailed interaction with external vendor and multiple internal teams
  - Worked on multiple calculators to expose data to the frontend through a pre-existing REST Service. Queries were written in SQL and Apache Spark
  - Worked on multiple UI dashboards for the platform using React, Javascript, AG-Grid
  - **Languages/Frameworks**: Java, Apache Spark, Apache Kakfa, RESTful APIs, Fitnesse, JUnit, MySQL, React, Redux, HighCharts, AG-Grid, Jest

- **Goldman Sachs** — Remote
  Summer Analyst (Internship) — *May 2020 - Jun 2020*
  - Developed an interactive network diagram using React and D3.js for an inventory management optimization platform to visualize movements across nodes within a graph
  - The graph comprised of a series of locations (nodes) and a series of permissible movements (flows) generated by a Mosek optimizer
  - Each location consisted of a balance that could move across the locations across complex paths
  - The project utilized GraphQL as a middleware layered on an existing REST API
  - **Languages/Frameworks**: GraphQL, React, D3

- **Freelance** — Remote
  Software Engineer — *September 2023 - Present*
  - Designed and developed the landing site for a Hawaiian food catering company called Simply Indulge using AstroJS. Site was deployed using Cloudflare Pages.