RISHABH ASTHANA

New York, NY · 217-305-1260 · rishabh.asthana163@gmail.com

linkedin.com/in/rishabh-asthana · github.com/RishabhAsthana · www.rishabhasthana.com

WORK EXPERIENCE

Frontend Engineer II   *July 2022 – Present*
Amazon Web Services (AWS DataZone)   *New York, NY*

- Led migration of frontend framework to modern React, TailwindCSS, Vite, Zustand and File based router. This significantly improved developer experience, velocity, and introduced standardization for over 86 developers
- Parallelized canary/integration test executions, reducing total runtime from 50 minutes to 5 minutes. This accelerated feedback loop for developers to test out their changes and reduced time to detect anomalies in production stages
- Implemented several pages of the web application, set good UX standards that avoid layout shifts, utilize optimistic rendering, developed components that are a11y and i18n compliance

UI Developer   *Feb 2019 – July 2022*
Akuna Capital   *Chicago, IL*

- Designed and implemented a modular microfrontend framework that supports lazily loading modules allowing users to curate their own dashboards using SvelteKit, Typescript and TailwindCSS
- Created an architecture design that allows for stream processing UI workloads using Python for data ingestion, Redis for caching, and Go APIs for maximum performance at low resource overheads and horizontal scalability at every layer
- Implemented Single Sign On at proxy level for over 60 dashboards in a non-intrusive manner, greatly improving security and user experience
- Published a Chromium Extension to serve as a portal for all Akuna dashboard access and layout management, lifting mental bookkeeping effort on the user's part to the machine
- Setup and managed deployments with Kubernetes ensuring zero downtime and fault-tolerant dashboards and services

Software Engineer Intern   *May 2018 – Aug 2018*
Yahoo Inc. (Verizon Digital Media Services)   *Los Angeles, CA*

- Created a coredump handler for error telemetry of over 22000 production servers using gdb, Python for better visibility and trend analysis of process crashes. Used AWS and Docker to host a Sentry.io stack capable of handling upto 15 million coredump crash events every day
- Developed a RESTful API to leverage eBPF kernel tools for extremely performant, remote system monitoring of production servers using Python and C, coupled with a React and D3.js frontend

Software Engineer Intern   *May 2017 – Aug 2017*
Exegy Inc.   *St. Louis, MO*

- Designed and implemented a web interface using Python/Flask backend, HTML5/CSS/Bootstrap frontend for an extensively used testing utility for simulating trade events, reducing testing times from 10 minutes to 30 seconds
- Enhanced functionality of testing utility written in C by enabling manipulation of UDP packets in data logs to allow for simulating different scenarios, significantly increasing testing coverage

EDUCATION

University of Illinois at Urbana Champaign   *Dec 2018*
Bachelor of Science, Computer Science   GPA: 3.61/4.00

SKILLS

Languages: Typescript, Javascript, Python, Golang, LaTeX, C/C++
Frameworks: Sveltekit, React, FastAPI, TailwindCSS, Figma, Redux, Zustand
Databases: PostgreSQL, Redis, SQLite
Cloud Tools: AWS, Firebase