Prasanth Vaaheeswaran

prasanthv@icloud.com
Toronto, Canada

Skills

TypeScript, JavaScript, Go, Python, Node.js, NestJS, Express, React, Postgres, MySQL, MongoDB, GraphQL, Redis, RabbitMQ, Kafka, Docker, Kubernetes, GCP, AWS, Terraform, Argo CD, Prometheus, Grafana, OTLP, gRPC, Protobuf, OAuth 2.0, OpenID Connect, Bash, Linux

Work Experience

Staff Software Engineer @ Okta   September 2023 to February 2024

- Reduced security risk in customer support tool by detecting and addressing insecure OAuth 2.0 authorization flow.
- Launched a new API rate-limit dashboard for 2023 Black Friday/Cyber Monday which enabled technical account managers provide data-driven solutions to Auth0 customers experiencing performance issues.
- Reduced Mean Time to Acknowledge (MTTA) by identifying the need for and creating an incident management protocol for Customer First tooling and data teams.
- Reduced code review and integration time ~20-30% by defining team engineering standards which improved work breakdown, code organization, Git/pull-request etiquette, and communication.

Impacted by 2024 February Okta layoff.

Staff Software Engineer @ Clearco   May 2022 to September 2023

- Designed and built horizontally scaleable data pipeline that is responsible for processing over 50% of revenue-generating data at thousands of records/minute.
- Decreased payment domain incidents and defects by 75% by implementing ADRs, post-mortems, RCAs, and establishing SRE principles as requirements.
- Increased contract processing throughput by over 10x by replacing manual Know Your Customer (KYC) and Know Your Business (KYB) steps with a fully automated system.
- Championed and led the redesign of the CI/CD pipelines and devops processes, which reduced deployment time by hours, increased deployment rate by 2x, improved Mean Time to Recovery (MTTR) of services, and decreased infrastructure costs by over $2K/month.
- Led architectural review forum, that fostered cross-team collaboration on system design, key decisions, and implementation, which improved morale, reduced service disruptions, and mentored senior engineers.
- Actively mentored senior and intermediate developers by offering career guidance, support, and opportunities to deliver impactful outcomes which led to improvements in development tooling that reduced local development environment issues.

Senior Tooling (Full-stack) Engineer @ Auth0   November 2020 to May 2022

- Implemented new configurable demos within Auth0 Demo Platform which showcased OAuth 2.0, Passwordless, WebAuthn, multi-factor authentication (MFA/2FA), and other identity and access management (IAM) capabilities.
- Managed Kubernetes cluster deployed in Amazon EC2, later migrated to managed Kubernetes cluster (EKS) which led to significant reduction in maintenance and costs.
- Improved MTTR and overall traceability of demo platform by refactoring backend services and key workflows to leverage OTLP (OpenTelemetry Protocol) libraries.
- Designed and built system to record demo life-cycle events using Protobuf and Kafka to track platform usage and generate reports via integration with business intelligence tools.

Work Experience Continued

Technical Lead @ IBM
April 2018 to November 2020

- Designed and built token-based authentication system which standardized machine-to-machine (M2M) authentication and authorization within IBM Supply Chain Insights (SCI).
- Designed a new customer provisioning system that provided an event-driven framework to orchestrate and simplify complex provisioning steps needed to onboard customers.
- Authored several critical postmortems which helped identify and prevent data corruption and improve bulk data processing throughput.
- Guided DevOps team in designing and managing CI/CD process, Kubernetes cluster, and stateful resources (Redis, MongoDB).

Senior Front-end Developer & Team Lead @ IBM
January 2017 to April 2018

- Designed the front-end application architecture of IBM Supply Chain Insights (SCI), a greenfield SaaS product launched in 2017; built in Angular using TypeScript.
- Designed and implemented state-management patterns within front-end application which ensured business logic isolation from presentation layer.
- Performed code and design reviews which ensured best practices and standards were followed to deliver the best experience for SCI users.
- Leveled-up the team through knowledge sharing sessions that covered diverse topics such as Git, Docker, UI architecture, debugging, and semantic versioning.

Front-end Developer @ IBM
January 2015 to December 2016

- Maintained internal Design System and component library. Which included implementing fixes and enhancements to over 30+ AngularJS components, creation of new components, and managing user community.
- Migrated build systems from Jenkins to GitLab Runners which reduced the maintenance complexity and improved stability of CI/CD pipelines.
- Deployed and maintained internal prototyping tool (fork of plnkr) used by developers to share code-snippets and get feedback.
- Co-founded and ran monthly front-end working group, that focused on new technologies and fostering collaboration among front-end teams across IBM. An iteration of this group is still maintained within IBM today.

Software Developer @ Higgins.Ai
February 2014 to January 2015

- Member of three-person engineering team in a pre-series A tech startup that developed one of the first browser based Point-of-Sales (POS) system for the iPad.
- Implemented several features and fixes which helped secure customers, such as a new seating plan feature that specifically helped sign restaurants.
- Refactored reporting pipeline and tool to include more useful data which increased user engagement by over 50%.
- Deployed, managed, and provided technical support for 25+ customer installations.