RELEVANT EXPERIENCE

• Meta Platforms, Inc

Seattle, US

Staff Software Engineer , Meta Platforms Inc

Oct 2021 - Present

- Led the successful migration of 10 year old distributed system (used by 2400+ teams) processing > 24 trillion operations daily in a 2 year+ migration effort
- Reduced operational events by 60%, accelerated development of newer capacities, and achieved substantial server savings (95+ million dollars) from the migration
- Spearheaded the development of a capacity pooling concept that helped 300+ teams optimize their server usage generating \$6 million in annual capacity savings and improving system responsiveness by 10–20%
- Designed and implemented a traffic shaping mechanism, resulting in substantial costs savings and resilient operation at traffic peaks
- Speadheaded a cross-org efficiency initiative to achieve close to 90+million\$ in capacity savings in 2024,2025.
- Colloborated across org with stakeholders on roadmap planning for multiple years
- Built a generic backpressure mechanism that helped improve reliability of meta products like recommendation systems
- Positively impacted the reliability of features in Meta products such as WhatsApp, Instagram, Facebook, and Thread.
- Co-authored the research paper "XFaaS: Hyperscale and Low Cost Serverless Functions," shedding light on the intricacies
 of serverless computing within hyperscale environments and contributing valuable insights to the field of cloud computing.

Amazon Web Services

Seattle, US

Sr Software Engineer, Amazon API Gateway

April 2019 – September 2021

- Lead engineering for one of the highest traffic volume AWS service Amazon API Gateway a highly configurable reverse proxy with tight integration with many AWS services.
- Guide API Gateway's architectural vision on scalability, availability and operational posture. Sponsored a cross team rearchitectural effort to build a scalable shuffle sharded data plane.
- Represent API Gateway's engineering in broader AWS-wide initiatives like regular availability risk review.
- Lead API Gateway's technical strategy in new initiates to support gRPC protocol, private connectivity to APIs, improve rate limiting customer experience for API Gateway's customer (Limitless).
- Led effort to deliver complex customer impacting features for API Gateway like Mutual TLS (official blog post). Built consensus
 on approach with AWS-wide stakeholders, designed and led the core development team. Efforts led to the successful delivery
 of the critical requested feature for enterprise customers.
- Drive API Gateway's architectural vision to separate frontend layer into a separate layer and led the effort to build the initial version. Built consensus on approach with cross-team stakeholders, developed and delivered a Rust based frontend layer for API Gateway that handles an initial set of usecases with a vision to solve future product usecases.
- Led API Gateway's engineering effort to evaluate the next gen data plane technology. This resulted in the new platform that powers the HTTP API platform (official blog post)
- Designed and built a custom networking protocol using TUN to eliminate a vertical scaling cliff in API Gateway's internal
 mechanism to support VPC integration. The mechanism eliminated the scaling issue entirely which resulted in a much simpler
 architecture.

• Amazon Web Services

Seattle, US

Software Development Engineer II, Amazon API Gateway

Feb 2016 – March 2019

- Led the effort to build a new stateful data plane to support WebSocket protocol in API Gateway (official blog post). Designed
 and developed the core pieces of data plane while mentoring junior engineers. WebSocket data plane handles some of API
 Gateway's largest customers.
- Led the effort to deliver Private API for API Gateway (official blog post). Scoped requirements with Product, designed and developed a new data plane to handle the Private API traffic.
- Helped deliver VPC integration for API Gateway (official blog post). Developed the low level design and delivered feature as part of a team.
- Led the effort to deliver customization of error responses for API Gateway (official blog post). Scoped the requirements, designed and developed the Gateway Responses feature that helped with customizing errors from API Gateway.

Amazor

Bangalore, India

Software Development Engineer II, Product Aggregator

Sept 2015 – Jan 2016

Led effort for utilization improvements on a high throughput web service that's on the critical path for all product page loads.
 Re-architected the caching mechanism which resulted is significant capex savings for the service.

Amazon
 Software Developer Engineer I, Product Aggregator

Bangalore, India April 2013 – Aug 2015 Developed an internal web portal to help analyse traffic patterns from hundreds of internal callers. Its used by the team during operational events to look at traffic patterns.

Tools and Technologies: Java, Perl, Python

• Akamai

Associate Solutions Architect, APAC

Bengalore, India

July 2012 – *April* 2013

Delivered integration solutions for Akamai customers by evaluating the web architecture, security requirements, DNS configuration that satisfies the customer's business and technical requirements.

EDUCATION

• Ramaiah Institute of Technology B.E., Information Science and Engineering

GPA - 9.28 / 10

Bengaluru, India 2008 - 2012