

## Experience

<b>Senior Software Engineer Software Consultant</b>	<b>Zivame</b>	<b>Aug 2018 - Jul 2019 Aug 2019 - Present</b>
<ul style="list-style-type: none"><li>Designed and deployed auto-scaling for web servers, to reduce deployment time from 120 minutes to <b>1 minute</b></li><li>Rightsized server capacity and services, resulting in reduction of AWS monthly cost by <b>20%</b></li><li>Configured nginx for A/B testing to support dynamic bucket ratios of users across device platforms</li><li>Optimized nginx caching to reduce static API's latency from 0.15s to <b>0.001s</b> and Redis caching load by <b>30%</b></li><li>Identified a network bottleneck in the caching layer and implemented a horizontally scaled primary-replica system to reduce overall average API latency from 1s to <b>0.15s</b></li><li>Enabled proactive business responses to financial metrics, conversion drops and API errors through an interactive real-time dashboard built on Elastic Stack (Kibana, ElasticSearch, Logstash)</li><li>Analyzed web requests and implemented rate-limiting via Cloudflare to block brute force attacks</li></ul>		
<b>Software Engineer</b>	<b>TenTenTen Digital Products</b>	<b>Oct 2014 - Jun 2018</b>
<ul style="list-style-type: none"><li>Designed and built core features of a fantasy gaming application from the ground up to serve <b>120,000</b> concurrent users</li><li>Built console-based monitoring tools for production servers to track key performance indicators and provide a holistic view of the system infrastructure</li><li>Led migration of code base from jQuery to AngularJS, cutting development and maintenance time by <b>2 times</b></li><li>Locally enhanced web2py framework to handle session DB writes more efficiently, enabling the system to serve <b>100,000</b> concurrent users instead of 60,000 users</li><li>Built a multiprocessor producer-consumer framework that scaled to handle the process of sending emails with prioritisation queue to achieve an output of <b>100+</b> emails/second</li><li>Investigated and configured kernel parameters to increase the average number of web requests from 2k to <b>2.5k</b></li><li>Identified and mitigated bottlenecks through distributed load-testing using 'locustio' before large scale deployment</li></ul>		

## Languages and Technologies

- Languages - Python, Javascript, Shell, HTML, CSS, PHP, Java
- Frameworks - NodeJS, Flask, Django, AngularJS
- Databases - MySQL, Redis, MongoDB
- Cloud Services - Amazon AWS (EC2, RDS, S3, VPC, R53, SES, SQS, SNS, ElasticCache, CloudWatch), SpotInst, Cloudflare
- Technologies - ELK Stack, Jenkins, Nginx, Uwsgi

## Education

<b>Sacramento, CA</b>	<b>California State University, Sacramento</b>	<b>Aug 2019 - May 2021</b>
<ul style="list-style-type: none"><li>Master's in Computer Science</li><li>Graduate Coursework: Data Models and Databases, Computer Networks, Programming Language Principles.</li></ul>		
<b>Bangalore, India</b>	<b>Ramaiah Institute of Technology</b>	<b>Sept 2010 - Jun 2014</b>
<ul style="list-style-type: none"><li>Bachelor's in Computer Science and Engineering</li><li>Undergrad Coursework: Data Communication and Networking, Operating Systems, Unix, Databases</li></ul>		

## Projects

- Auth proxy layer** (2019) - Add authentication layer and proxy to unprotected apps using NodeJS
- VoIP GSM Gateway** (2019) - Setup and configured GSM over VoIP using asterisk for Raspberry Pi
- pfsense Router** (2019) - Configured pfsense with firewall policies, load-balancing and fail-over for multiple internet connections for a home network