

Experience

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

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

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

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