# Gaurav Kshirsagar

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## SKILLS

**Languages**: PHP, Java, Python, Bash, SQL, JavaScript, Golang
**Databases**: MySQL, MongoDB, Cassandra, PostgreSQL
**Frameworks**: PHP Unit, JUnit, WireMock, React JS, Node.js, AngularJS, Flask, Zend, Laravel, Spring, Bootstrap
Spark, Hadoop, Solr
**Developer Tools**: Git, Docker, AWS, Azure, Google Cloud (GCP), Puppet, Bamboo, Splunk, Maven, Nginx, Kafka
**Libraries**: Dropwizard, Hystrix, NLTK

## EXPERIENCE

**Senior Software Engineer**                                                                                       May 2022 – Feb 2024
*Synacor Inc.*                                                                                                                *Buffalo, NY*
- Architected Consumer Identity and Access Management (CIAM) solutions supporting about 10 million users featuring SSO and MFA, serving 15 million requests during peak hours to content providers including HBO, NFL and Peacock. This involved authentication flows on a PHP stack using OAuth 2.0, SAML 2.0, OpenID Connect.
- Implemented authorization flow served by a Spring Boot Java microservice, which integrated with a data store or client APIs (hosted on Azure or AWS) to provide instantaneous authorization responses, typically within 200 ms
- Led a team of 4 engineers and organized migration of reconciliation repository from data center to Oracle Cloud Infrastructure (OCI) hosted machines thus saving about $100,000 a month in infrastructure costs
- Migrated 3 million users' identity to real-time, highly available and fault tolerant REST APIs built on microservices. Users belonged to cable providers such as Telus, Breezeline, Windstream, WOW!, Astound etc
- Saved querying time by 1 hour by creating log parser and Splunk API consumer in Bash, which computed unique authentications and authorizations from PHP and Java logs respectively. Created dashboard to show statistics
- Provided on-call support for clients' escalations and resolved emergency issues within 24 hours. Searched PHP, Java and HTTPD logs, validated data stored in MySQL and Cassandra databases to resolve issues
- Followed Scrum practices of Agile methodology in a 5 person team, like sprints, ceremonies, story creation, task estimation and ticket pipelines for an efficient SDLC

**Software Engineer II**                                                                                            Aug 2018 – May 2022
*Synacor Inc.*                                                                                                                *Buffalo, NY*
- Served 8 - 10 million users with TV Everywhere integrations, built using SAML 2.0 and OAuth 2.0 standards, between TV providers like Apple TV, YoutubeTV, AT&T and content providers HBO, Peacock, STARZ
- Created a SaaS / IaaS feature and saved 5 - 10 hours of emails. Integrated microservices for provisioning users and organizations into an on-boarding portal and created release runway
- Parsed hundreds of MBs of logs, generated by SiriusXM's microservices. Scripted using Python and useful parts of logs were extracted and stored on file for further processing
- Improved efficiency of Zimbra server installations by 20% by performing health-check analysis. Wrote Bash scripts to gather CPU, memory, IO and cache statistics from clients' servers, and suggested improvements
- Created a Linux RPM using rpmbuild and made a CI / CD pipeline using Bamboo and Puppet to automatically test, promote and deploy it to CI, UAT and Preview. Set up cron jobs on servers for scripts in the repository

**Software Engineer I**                                                                                              Apr 2016 – Aug 2018
*Synacor Inc.*                                                                                                                *Buffalo, NY*
- Customized Portal product and made Portal integrations with other products, for cable providers such as AT&T, WOW!, Grande Communications (Astound) and Hawaiian Telecom using PHP framework built on Zend engine
- Built and deployed a Go microservice for provisioning and deleting F-Secure anti-virus licenses for Blue Ridge users within seconds

## EDUCATION

**University at Buffalo**                                                                                                       Buffalo, NY
*Master of Science, Computer Science and Engineering*                                                       *Aug 2014 – Feb 2016*

**University of Mumbai**                                                                                                     Mumbai, India
*Bachelor of Engineering, Computer Engineering*                                                              *Aug 2010 – Aug 2014*