AKSHAY SONVANE

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Education

M.S. in Software Engineering (Pursuing)	**San Jose State University**	May 2018	GPA- **4.00/4**
B.E. in Computer Science & Engineering	**Babaria Institute of Technology**	April 2015	GPA- **3.89/4**

- Awarded with three scholarships for securing Top Rank at University level.

Skills & Abilities

Programming Language	Java, Android, Python, JavaScript, C, C++, C#
Database	MongoDB, MySQL, Redis, MS SQL
Web Development	JQuery, HTML, CSS, PHP
Software Technologies	Docker, Amazon Web Services, Amazon EC2, Heroku, Spark, Flask, Django, NodeJS, AngularJS, ASP.NET

Relevant Projects

RESTful Dockerized Expense management system

- Developed a simple expense management system that provides RESTful endpoints for CRUD operations using python flask.
- Achieved fault tolerance by implementing active replication of docker instances which increases availability.
- Implemented round robin load balancing for traffic distribution which eliminates overloading of a single replica instance.
- Implemented Redis routing table which routes requests to available replica instances and maintains it for upcoming requests.
- Achieved quick failure detection by implementing circuit breaker, preventing routing requests to failed replica instances.
- Implemented sharding using consistent hashing (configurable to use HRW/Rendezvous hashing) which improves scalability.

Where's my number?

- Designed a real-time multiplayer game which teaches the concept of binary search to elementary school kids.
- Developed in java using multiple coding design patterns viz. State, Observer, Strategy
- Supports multiple players in the same session.
- Each session can have multiple rounds which can be configured from client side.
- Followed Scrum methodology coupled with XP practices.

EveOne

- Event management tool for schools developed using MEAN stack.
- Web application allows schools to invite other schools for events/competitions, add student teams, send invites to parents for volunteering as judge, mark attendance of parents that have reached the event.
- Intelligently assign parents as judges for each team by filtering out relationship/familiarity between parents and teams.
- Android mobile application provided to parents to mark their attendance at the event and to provide event judging instructions.
- Multi-tenant architecture with auto-scaling achieved using Heroku deployment.

Train Wreck Data analytics

- Generated Jupyter notebook with analytical insights of train wreck dataset provided by trainwreckdb.
- Provided statistical insights by plotting graphs using the analytical data.
- Reduced job run-time by running jobs in-memory using apache spark for data analytics.
- Used IBM Data Science Experience cloud platform to run the apache spark service on cloud.

Experience

eCampus, San Jose State University	**Graduate Student Assistant**	**01/2017 - present**

- Developed LTI app for Canvas Learning Management System which maps survey url for 10,000+ students based on their unique identifier using PHP.
- Developed in-house web scraper for ETL operations using Python.

Compact Softech	**Software Engineer**	**06/2015 - 06/2016**

- Developed and integrated RESTful web services using PHP, ASP.NET and integrate the same with mobile application.
- **Projects:**
  - **Yu Support** – Android Application (100K+ Google Play Store downloads.)
    - It is an Android application designed for vastly popular Yu Yureka cellphone using PHP backend services.
    - Led a team of 2 to port the web app over to native Android application.