VISHESH SHARMA

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EDUCATION

Santa Clara University
Master's in Computer Science and Engineering *Fall '18 - Summer '20*
University of Mumbai
Bachelor's in Information Technology *Aug '14 - June '18*

WORK EXPERIENCE

Airspace Systems, Inc. *June '19 - Sep '19*
Software Engineer Intern

- Working on technologies such as PHP (CodeIgniter), Javascript, SQL, Docker, Git for developing the website, managing the databases related to it and using git for updating the codebase on a regular basis.
- Developed an API endpoint for connecting to the server, storing the data into the database, and developing the UI of the website.
- Generated a TinyURL for sharing the formatted data with the user with a system generated token which the user can use for retrieving the information on demand.

TECHNICAL SKILLS

- **Tools & Languages**: Java, Python, Cpp, Android, SQL, Matlab, Visual Studio, Git, PhpStorm, Sequel Pro.
- **Web Technologies**: AngularJS, Node.js, Express.js, Mongoose, jQuery, HTML, JavaScript, CSS, PHP, RESTful Web Services, Flask, CodeIgniter.
- **Cloud Technologies:** AWS, GCP (Google Cloud), Docker, serverless computing.
- **Databases & Operating Systems**: Firebase, MongoDB, MySQL, Oracle Database, Windows, Linux (Ubuntu).

PROJECTS

Analysis of Microservice performance in Serverless Computing: *Apr '19 – June '19*
*(Tools used: **AWS, JMeter**)*

- Performed analysis on various factors which may impact the performance of microservices in serverless computing such as Elasticity, Load Balancing, Memory Reservation, and Programming Languages.
- Leveraged AWS Lambda function for testing out different COLD and WARM start times.
- Recorded the results and formed conclusions based on the data recorded from the analysis of the various factors. Link to paper: https://tinyurl.com/y6ghl9g4

Developed an Android Application (*SnapSongs*): *Jan '19 - Mar '19*
*(Tools used: **Android Studio, Java, Firebase**)*

- Developed a snapchat like application where instead of photo users can share different songs with its followers.
- Listed the songs from the SD card, and extracted the title name, artist name along with the snippet of the song using 'Ffmpeg' library which the user can post by clicking on the share button, and where the user can also listen to the different songs of his/her friends. Interface developed with the help of 'fragments'
- Developed using Android Studio with the help of Java at the backend and used Firebase for authentication and for storing the user information and the song snippets, along with the user's list of friends and followers.

MEAN Stack Application: *Feb '19 - Apr '19*
*(Tools used: **Node.js, MongoDB, AngularJS, Express.js, Mongoose, CSS, JSON, Visual Studio Code**)*

- Developed a MEAN application where a user can create, edit and delete its posts, after authenticating the user.
- Integrated user facing angular components with server side using RESTful Web services.
- Used MongoDB Atlas to create a cluster in the cloud for connecting and storing user data in the database.
- User authentication through JSON Web Tokens (JWT).

Designed and Implemented a REST API: *June '19*
*(Tools used**: Python, Flask, Swagger**)*

- Designed a REST API and a backend for a system which was used to allocate different phone numbers to the users, the user can also request for a special number of his/her choice.
- Used Flask-RESTPlus for adding support for building the API, which also has built-in Swagger documentation.

E-Commerce Website: *Aug '15 - Nov '15*
*(Tools used: **HTML, CSS, Javascript, PHP, SQL**)*

- Maintained a database of various items and created a user interactive website experience with different functionalities such as adding item to cart, checking the price of a product etc.
- Developed test scripts and executed functional tests across a variety of environments
- Maintained a sql database where user details are stored along with the user activities which are regularly updated.