

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

Amazon Web Services, Inc.

July '20 - Current

Software Development Engineer

(Software tools: **Java, Typescript, IntelliJ, AWS Services (CloudFormation, CloudWatch, DynamoDB, S3, ApiGateway, AWS Lambda, IAM etc.), Serverless Computing, Git, NAWS, MAWS**)

- Responsible for developing new customer features and Software with the help of Native AWS and Java (also Typescript) to build and develop Amazon Web Services CDK applications.
- Fixing the bugs in the software as part of Operational Excellence.
- Being on-call for the team on periodic intervals to help resolve the various customer and software issues
- Learning and performing deep dives on the code and finding out the reason for the different software errors with the help of AWS services like CloudWatch logs, DynamoDB, CloudWatch Dashboard.

Airspace Systems, Inc.

June '19 – Dec '19

Full Stack Engineer Intern

(Software tools: **PHP (CodeIgniter), Javascript, SQL, HTML, CSS, Docker, Git, Maptalks, Mapbox**)

- Responsible for developing API endpoints, managing the data in the database, and developing the UI.
- 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.
- Performed visualization using Javascript by creating charts based on the various parameters.
- Updated the customers with a daily email report of the various threat level drones in their area, by scheduling a daily CRON job.
- Performed visualization using Javascript by creating charts (bar graphs, pie charts etc) based on various input parameters passed from the database.

TECHNICAL SKILLS

- Tools & Languages:** Java, Typescript, Python, Cpp, Android, SQL, Matlab, Visual Studio, Git, PhpStorm, IntelliJ.
- Web Technologies:** HTML, JavaScript, CSS, PHP, RESTful, AngularJS, Node.js, Express.js, Mongoose, jQuery, Web Services, Flask, CodeIgniter.
- Cloud Technologies:** AWS, GCP (Google Cloud), Docker, Distributed Systems, 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 Services, 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.