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
Project: Building backend automation system which improves the deal velocity and enables the sales representatives to create quote-to-contract private pricing deals with the external customers world-wide and include non-public discounts based on their usage commitments more effectively. Our service accounts for approx. 62% of the AWS revenue.

- Creating design documents when developing a feature or fixing a bug in the system architecture.
- Writing code and fixing bugs in the software.
- Being on-call for the team on periodic intervals to help resolve the various customer and software issues.

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

Airspace Systems, Inc.   *June '19 – Dec '19*
Full Stack Engineer Intern
Project: Worked on a full stack web application which detects the rogue drones flying through a protected area in the map and creating helpful user tools in the UI, along with creating visualization graphs and metrics in the UI.

- Developing relevant tools for the application such as Heatmaps, 3D views of the map, Ruler-to measure the distance between a drone and any location on the map, generating a custom report with the details of the drones displayed on the website.
- 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.

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

TECHNICAL SKILLS

- **Tools & Languages**: Java, Typescript, Python, Cpp, Android, SQL, Git, Visual Studio, PhpStorm, IntelliJ, Firebase.
- **Web Technologies**: HTML, JavaScript, CSS, PHP, RESTful Web Services, CodeIgniter.
- **Cloud Technologies:** Various Amazon Web Services, Distributed Systems, Serverless Computing.
- **Databases**: MySQL.

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 stored in 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.

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.