Divij Sehgal

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EDUCATION

Delhi Institute of Technology and Management, Sonipat
Bachelors of Technology, Computer Science (2013-2017)
C.G.P.A. 7.5/10.0

Study Hall School, Lucknow
All India School Senior Certificate Examination, 2013
81%

EXPERIENCE

Full Stack Developer, FlytBase Inc, Pune   Oct, 2017 - May, 2018
Development of web related software centered around drone based applications.

Analysis, design, development, testing and deployment on various Internal as well as Custom Software Projects.

- Bug Fixes and Updates to the Flytbase API Documentation.
- Improvements and Bug Fixes to Flytbase's Cloud Architecture and Web Applications.
- Revamp and Migration of Flytbase's cloud and APIs backend towards a microservices based architecture using Django as the main web application framework, following API Gateway Pattern for access to the backend and Database per service pattern for persistence purposes.
- Developed a Proof-of-Concept for real time video streaming application over RTP/RTMP protocols built over the Wowza Streaming Engine.
  The application lets a drone user stream live video from a camera present on the drone to the cloud, from where it is streamed to users on demand on the browser using jwPlayer as well as available for stand alone devices via an open RTMP stream.
- Developed a platform for drone based inspection of Telecom Towers in the United States.
    * The platform works using abstractions called Jobs and Bids. Bids are placed for Jobs created by users and based on certain configuration parameters, the Job can either be auto-assigned on the first bid or multiple entities can compete for a Job, which the creating entity then takes care of reviewing and assigning.
    * The application was developed and deployed in a multi-container setup and utilizes Python/Django/Numpy/Gunicorn, Javascript frameworks such as jQuery, CesiumJS, MySQL(MariaDB) for persistence as well as Amazon S3 for Blob Storage.

Intern, HT Media, New Delhi   Jan-July, 2017
Web development using The Django Framework, Celery, AngularJS, MySQL, ELK Stack, Postfix MTA.

Summer Intern, Bharat Petroleum, Mumbai   June-August, 2016
Development of backend components based on Enterprise Java as well as Development of a Push Notification Mini-Platform built using Firebase and Android SDK.

SKILLS

Programming

Python, Java, JavaScript, C++, MySQL, PostgreSQL, SQLite, HTML, CSS.

Frameworks and Libraries

Django, DjangoRestFramework, jQuery, AngularJS(1, 2+), Bootstrap, Android SDK and related tools - Picasso, SugarORM, Retrofit etc, NumPy, Pandas, Flask.

Familiar	Linux/Ubuntu, Docker, Elasticsearch, ELK Stack, API Development, Flask, Asynchronous applications using Celery and RabbitMQ, Nginx, Apache, OneSignal, Firebase Cloud Messaging, Postfix MTA, AWS S3, EC2, Git, Containerization, Data Visualization - Chart.js, Matplotlib, Octave, Web Scraping, Video Streaming over RTMP/RTP, TDD Methodology, Scrum Methodology, Jenkins, LaTeX, Typescript, Distributed Systems.
Other Interests	Distributed Systems, Blockchain, Machine Learning, Conversational Bots, Computer Vision, Deep Learning. Completed Coursera's Machine Learning Course with an aggregate score of 96%. Exploring new technologies.
Currently Learning	CNNs for Visual Recognition via Stanford's CS231n Course Material Using Tensorflow for Deep learning via Stanford's CS20 Course Material

PROJECTS

College Notification System

Utilizing the power of Push Notifications and Android, built a mini Push Notification Platform for management of flow of information all around the Campus, among Student and Faculty Members.

Role: Android app development, frontend, backend development using Android SDK, AngularJS and Django.

Experimental: Bistro Bookie Bot

A simple, command based restaurant reservation system built using Django, Telegram, Google AppEngine, Google Datastore and Google Memcached.

Uses an interface similar to the one used by Apps such as Zomato and Swiggy to chat with their customer support, based on commands and user inputs in ways similar to those menus.

Bot is deployed on Telegram as bistro_bookie_bot and is currently offline. Leave an email, if you want to see how it works and I'll try bringing it back up.

Github: SehgalDivij

ACTIVITIES

- Presented a 30 minute tech-talk on Importance of CI/CD at a local Python Meetup. The audience was mostly recent grads and college students.
- 1st in School, National Informatics Olympiad, 2011
- Co Host, Interdepartmental Cultural Event, 2014
- Drama Competition - Part of Winning Team, 2015

HOBBIES Cycling, Table Tennis, Swimming, Reading Books, Running.