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SUMMARY

I'm a software engineer with 4 years of experience ranging from implementing large scale image/audio/text processing systems to creating and managing databases/APIs for mobile applications/websites. I believe in learning the right framework/tool for the job though I'm most comfortable with Python or Javascript.



SKILLS

Key project areas - Backend engineering, machine learning, natural language processing, data visualization, audio analysis, front end development, web scraping, rapid prototyping (hackdays).

Tools - Python, Javascript, HTML, CSS, C, Mongodb, Flask, Scikit-learn, Amazon Ec2/Elastic beanstalk/S3, Linux, Git, NodeJS, Webpack, Apache, Bash, other Python/Javascript libraries.

Languages - English, Spanish, Italian, Hindi and Marathi.



EXPERIENCE

Mar 2016 - Present

Software Engineer @ Stylezz

London, UK

Stylezz is an app for shopping clothes. I designed, optimized and maintained the MongoDB based backend. This includes the daily processing, cleaning, tagging and normalization of 5 million products coming from feeds of over 200 retailers and built other related microservices. I also prototyped a deep learning based image classification (clothes categorization) and image to image search system which allows users to quickly find a given item in our catalogue.

Tech used - Python, MongoDB, Flask, Scikit-learn, Caffe, Ec2, Elastic beanstalk, Git

Jun 2013 - Mar 2016

Software Engineer @ Musixmatch

Bologna, Italy

Responsibilities: I executed audio/lyrics/data analysis projects, released internal/external APIs, collaborated with researchers, hired/supervised interns and prototyped features for products.

Lyrics insights: Extracting statistics from lyrics (~10k artists & 400k lyrics/tracks) & writing articles about them. These have been featured in [The Guardian](#), [Billboard.com](#), etc.

Other selected projects: mood prediction, improving lyrics sync, detection of new releases from Youtube and instrumental song detection.

Developer Evangelist: I travelled to 20 hackdays, demonstrated our APIs, helped hackers and built lots of stuff. Some of the above work can be found at lab.musixmatch.com

Tech used - Python, Javascript, MongoDB, Scikit-learn, Flask, NodeJS, Webpack, NLTK, Ec2, Git

Sept - Dec 2013

R&D engineer trainee @ Yamaha Music

Hamamatsu, Japan

Vocaloid is a singing voice synthesizer. I used machine learning to improve phonetic segmentation for speeding the creation of new singing voices for the Vocaloid.

Tech used - Python, Scikit-learn, Git

Apr - Jul 2012

Google Summer of Code intern @ Mixxx.org

Barcelona, Spain

Mixxx is an open source DJ-ing software written in C++. I added key detection, tempo independent pitch shifting and other supporting features for harmonic mixing for DJs.

Tech used - C++, Qt, Git



EDUCATION

2011 - 2013

M.S. in Sound and Music Computing @ Universitat Pompeu Fabra

Barcelona, Spain

Selected courses - Audio & music processing, Music perception & cognition & Machine Learning.

Thesis - Improving automatic phonetic segmentation for creating singing voice synthesizer corpora.

2006 - 2010

B.E. in Computer Engineering @ Delhi College of Engineering

New Delhi, India