

# Varun Jewalikar

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🌐 [varunjewalikar.com](http://varunjewalikar.com)

📍 London, UK

## 👤 Summary

I'm a software engineer with 6 years of experience of delivering large scale distributed systems and machine learning systems (audio, text and image based). I believe in learning the right tool for the job.

## 🔧 Skills

### 🔑 Interests

Backend engineering, machine learning, natural language processing, data visualization, audio analysis, web scraping, rapid prototyping.

### 🔧 Tools

Java, Kotlin, AWS, Javascript, Python, HTML, CSS, C, AWS, Scikit-learn, Linux, Git, Bash.

### 🗣 Languages

English, Spanish, Italian, Hindi and Marathi.

## 📁 Experience

### 🏢 Software Engineer, Amazon

📅 2017 - Present

📍 London, UK

I design, implement and maintain high traffic services (1 million requests/sec) for Prime Video. These services are deployed on a mix of AWS and Amazon internal infrastructure.

Designs done by me have saved \$2M YoY.

🔧 Java, Kotlin, Javascript, Python, Spring, DynamoDb, Cloudformation, Ec2, AWS IoT

### 👤 Consultant and tutor

📅 Oct - Dec 2016

📍 London, UK

I consulted/taught Python, machine learning, natural language processing and software engineering to professionals and students.

### 🏢 Software Engineer, Stylezz

📅 Mar - Oct 2016

📍 London, UK

I designed the backend for this shopping app. I prototyped deep learning based clothes categorization and image-image search system to improve discovery.

🔧 Python, MongoDB, Flask, Scikit-learn, Caffe, Ec2, Elastic beanstalk

### 🎵 Software Engineer, Musixmatch

📅 2014 - 2016

📍 Bologna, Italy

I did audio/lyrics/data analysis projects, collaborated with researchers, hired/supervised interns and made features for products.

I made data driven articles which been featured in [The Guardian](http://TheGuardian.com), [Billboard.com](http://Billboard.com), etc. Other research projects: mood prediction, improving lyrics sync, detection of new releases from Youtube and instrumental song detection.

I travelled to 20 hackdays, demonstrated our APIs, helped hackers and built things. 📄

🔧 Python, Javascript, MongoDB, Scikit-learn, Flask, NodeJS, Webpack, NLTK, Ec2

### 🎵 R&D trainee, Yamaha Music

📅 Sep - Dec 2013

📍 Japan

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

🔧 Python, Scikit-learn, Git

### 🏢 Intern, Mixxx.org

📅 Apr - Jul 2013

📍 Barcelona, Spain

I was a Google Summer of Code intern for Mixxx which is an open source DJ-ing software written in C++. I added key detection, tempo independent pitch shifting and harmonic mixing for DJs.

🔧 C++, Qt, Git

### 🏢 Intern, Beagleboard.org

📅 Apr - Jul 2010

📍 Delhi, India

I was a Google Summer of Code intern for Beagleboard which is a low-power single-board computer by Texas Instruments. I wrote a high level interface for Pulse width modulation via the output pins.

🔧 C, Git

## 🎓 Education

### 🎓 M.S. in Sound and Music Computing, Universitat Pompeu Fabra

📅 2011 - 2013

📍 Barcelona, Spain

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

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

### 🎓 B.E. in Computer Engineering, Delhi College of Engineering

📅 2006 - 2010

📍 Delhi, India

Thesis: A novel parallel clustering algorithm implementation with CUDA. 📄