

Vikash Kothary

Software Engineer · Graduate

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Key Skills

Fluent in	HTML5, CSS3, JavaScript, Python, Java, SQL, XML, JSON, Android, Bash
Working knowledge of	Less, jQuery, PHP, Jinja, Kotlin
Tools used	Vagrant, Docker, Ansible, Gradle, Selenium, Git, Linux, Ubuntu
Libraries used	Flask, SQLAlchemy, Redis, Natural Language Toolkit, OpenCV, Tensorflow
	- Ability to thrive in a fast-paced work environment
	- Excellent problem solving skills, with the ability to complete tasks in the most efficient way
	- Able to work efficiently on own initiative as well as able to contribute effectively within a team

Education

King's College London (University of London)	September 2014 - August 2018
MSCI COMPUTER SCIENCE (UPPER SECOND CLASS HONOURS)	Strand, London
<ul style="list-style-type: none">Final year project: Improving telephone access to market price information for smallholder framers in Sub-Saharan AfricaKey modules: Software Engineering Group Project, Cryptography and Information Security, Internet Systems, Distributed Systems, Database Technology, Software Engineering of Internet Applications, Network Security, Artificial Intelligence, Computer Vision	
Nower Hill 6th Form	September 2012 - July 2014
A-LEVELS	Pinner, London
<ul style="list-style-type: none">A* in Mathematics, A in Computing, B in Further Maths, B in PhysicsAS-Level: A in an EPQ on 'What makes a machine intelligent?'	

Work Experience

EDITED	June 2016 - September 2016
SOFTWARE ENGINEERING INTERN	Farringdon, London
<ul style="list-style-type: none">Developed and tested, from scratch, two caching databases for web scraped data and their translations. Allows faster translations and reduces the cost of translation API.Fast cache: Redis database used for fast retrieval. Stores most recently used translations.Long-cache: MariaDB Galera Cluster with SQLAlchemy master-slave configuration. Stores all translations for web scraped data.Created a Private Python Package Index that is stored in an AWS server and accessible only by employees; contains all their proprietary python packages.Wrote a migration script: Modify all python packages to use the new system using RegEx; create a release bash script to release on GitHub and upload to the new system; release all packages with changes.Developed package to identify any erroneous data stored in the database caused by errors when web scraping and apply a delta to fix the value with an extrapolated one.	
MyKidsy Coding Classes	March 2015 - November 2016
CODING TUTOR	Google Campus, Shoreditch, London
<ul style="list-style-type: none">Taught Scratch in the beginner class and HTML, JavaScript in the advanced classLead classes with 5-10 students and their parentsDebugged code, explaining mistakes and answered questions from students	
GCSE Computing, Nower Hill High School	September 2012 - April 2014
TEACHING ASSISTANT	Harrow, London
<ul style="list-style-type: none">One-to-one support to struggling/disruptive students, teaching HTML5, CSS3, JavaScript and JavaEmphasis on debugging code for the entire class (approx. 30 pupils), reinforcing material taught in class, teaching efficient programming practice, explaining mistakes and answering questions from students	
Citrix Systems UK Ltd.	24th June 2012 - 28th June. 2012
INTERN	Gerrards Cross, London
<ul style="list-style-type: none">IT department: Shadowed technicians, working with server management and customer service.Testing department: Reviewed and edited design documentation for a newly created Android application.Sales department: Assisted in setting up for an international sales presentation for the new Android application.Engineering department: Peer programmed with another intern, a self-help website for Citrix customers to help solve common problems using JavaScript and JQuery.	

Projects

Movie Narrator Python Application - GitHub

February 2017

TEXT GENERATION DEVELOPER

Southampton, UK

- Winner of the Bloomberg Prize at the SotonHack 2.0 hackathon event
- A narration application that used the ffmpeg library to sample images from a video; run Google App Engine image recognition and generate sentences to explain the scene
- Used an audio description dataset to build a model for sentences then generating Markov chains based on the image recognition keywords.
- Overcame the limited amount of training data available for the model by web scraping the descriptions of related videos on YouTube and adding it to the model

KCL India Society Website - GitHub

August 2016

SOLO DEVELOPER / MARKETING COMMITTEE MEMBER

Strand, London

- A portfolio website created by me to improve the society's online presence.
- Built using HTML5 Boilerplate, Bootstrap, JavaScript, Less to generate code that is clean and easy to maintain
- Website optimized for mobile and sharing through social media such as Facebook and Twitter using meta tags
- Gathers data for the society using Google Analytics

Languine Android Application - GitHub

February 2016

TEAM LEADER / APP DESIGNER

Strand, London

- A language application that delivers Spanish lessons to the user with a content management system to allow the client to add/remove lessons.
- The project manager for a team of 8 where I scheduled meetings, delegated tasks and liaised with the client
- I designed the entire user interface, which was implemented by my team and created the entire CMS backend

Extracurriculars

KCL Robotics Society

January 2015 - July 2017

VP OPERATIONS

Strand, London

- Ran workshops: basic electronics (twice), Lego Mindstorms (twice), Arduino cars (once for university students, once for younger students)
- Assisted a Robotics PhD student in running a workshop for building automation robots in the agricultural industry
- Set-up and maintained society operations: debit card, domain emails, password manager, internal/external calendar, slack, shared data storage, web hosting, GitHub, social media

KCL Tech Society

July 2016 - July 2017

COMMITTEE MEMBER

Strand, London

- Taught an 8-week beginner workshop on Android for beginners
- Hosted a 12-hour hackathon (MLH Local Hack Day) at KCL in a team of 4 with 30+ participants

Achievements

Hackathon Prizes, HackTrain InnoTrans; HackTrain 4.0; SotonHack 2.0; HackKing's 2.0; GreatUniHack

Coursera Certificates, Introduction to Interactive Programming; Crafting Quality Code

Shodan Black Belt, Jim Wilson's Karate Academy

ASA National Swim Awards, Levels 1 – 6

Harrow Schools' Swimming Certificates, Beginner, Intermediate, Survival, Water Safety Skills

Duke of Edinburgh Silver Award,

The Challenge Award,

National Citizen Service Award,

UK Mathematical Challenge, Junior - Gold Certificate; Intermediate - Silver Certificate; Senior - Bronze Certificate

Interests and Activities

In addition to my education and work, I have a lot of interest in various other things with my health being one of them. I enjoy regularly visiting my local gym after breakfast combining strength training and high-intensity cardio which helps me stay energised throughout the day. During the workout, I listen to popular non-fiction audiobooks or podcasts to advance my knowledge. I have also been learning to cook various cuisines of food since this is another key interest of mine. I am even making my way through a beginners' cookbook, aiming to make a new dish every week or two to awaken my taste buds. To wind down, I love TV shows or movies of various genres whether it's action, comedy, romance, sci-fi and/fantasy I appreciate them all, enjoying them on the PC that I built myself.

References on Request
