

Vikash Kothary

Technical Consultant · Software Engineer

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Key Skills

DevOps	Git; Vagrant; Ansible; Docker; Docker Compose; Kubernetes; Helm; Jenkins; Linux; Bash;
Frontend	HTML5; CSS3; JavaScript; TypeScript; LESS; SCSS; React; React Native; NodeJS; Webpack; Gulp; GraphQL;
Backend	Java; Scala; Groovy; Kotlin; Maven; Gradle; Spring Boot; Hibernate; Android; JSP; HTL; AEM;
Data Science	Python; Flask; Django; SQLAlchemy; Jupyter; Pandas; PySpark; BeautifulSoup; NLTK; OpenCV; Airflow;
Databases	SQL; MySQL; MariaDB; Postgres; Cassandra; Redis; MongoDB; SQLite; H2;
Cloud	Netlify; Heroku; AWS: EC2, Redshift, Lambda, S3, RDS; GCP: Cloud Run;

Work Experience

Adobe

Jan 2019 - Current

TECHNICAL CONSULTANT

Old Street, London

- Lead client-facing projects with multiple Adobe products including Adobe Experience Manager; Adobe Sign; Adobe Campaign.
- Built the AstraZeneca Covid-19 Vaccine information site to support multiple languages and content across different countries using HTL, SCSS, jQuery, and Java.
- Migrated 322 Informa Event websites as part of a team, in 9 months using HTL, Less, and SCSS. Built automation tools to go from 1 site migrated per 2 weeks, to 2 sites in half an hour in NodeJS and Java.
- Technical Lead for a 850+ Unilever sites, including 150+ household brands, with a focus on accessibility and reusability. Lead team with 7 UI developers, developing in HTL, SCSS, Gulp, and NodeJS.
- Developed an marketing campaign emails for BT and Adobe using HTML1.0 and inline CSS. Built a WYSIWYG drag-and-drop email builder on top of their existing AEM product to streamline content creation and authoring between web and emails.
- Ran use case driven sessions to enable clients on Adobe solutions and build API integration with their existing platforms including product enablement, requirements gathering and documentation.
- Designed a PoC to pull data in real-time from multiple Adobe Products using their APIs using Python, SQL, Pandas and Jupyterlab.
- Set up an always up, production ready, on-prem Kubernetes cluster to host Dockerized services for a internal Adobe awards website.

EDITED

June 2016 - September 2016

SOFTWARE ENGINEERING INTERN

Farringdon, London

- Developed a package to identify any erroneous data stored in the data lake caused by errors when web scraping. Applied deltas to fix the value with an extrapolated one.
- Short-term cache: Implemented Redis database used for fast retrieval of translation API results. For faster translations when processing data.
- Long-term cache: MariaDB Galera Cluster in master-slave configuration. Stores all translations for web scraped data. To reduces the total cost of translation API.

MyKidsy Coding Classes

March 2015 - November 2016

CODING TUTOR

Shoreditch, London

- Lead classes with 5-10 students, teaching web/game development. Instilling a love of technology in kids from a young age.

GCSE Computing, Nower Hill High School

September 2012 - August 2014

TEACHING ASSISTANT

Harrow, London

- Balancing one-to-one support to struggling/disruptive students and debugging code for approx. 30 pupils, reinforcing material taught in class.

Citrix Systems UK Ltd.

24th June 2012 - 28th June. 2012

INTERN

Gerrards Cross, London

- Cycled through multiple departments: IT, Testing, Sales, Engineering, following the development of a newly created Android application.

Education

King's College London (University of London)

September 2014 - August 2018

MSCI COMPUTER SCIENCE (UPPER SECOND CLASS HONOURS)

Strand, London

- Final year project: Using NLP to improve telephone access to market price information for smallholder framers in Sub-Saharan Africa
- Key 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

- A* in Mathematics, A in Computing, B in Further Maths, B in Physics
- Extended Project Qualification: A on 'What makes a machine intelligent?'

Open Source

GitCloud is a personal project to improve the developer experience for developing software at scale. Combining all my experience to manage and maintain my 200+ open source repositories and organisations automatically.

GitCloud Frontend - GitHub

Present

FRONTEND (NODEJS, TYPESCRIPT, SCSS, REACT, REACT NATIVE, EXPO, GRAPHQL)

Online

- A frontend micro service project to allow me to manage all my open source projects in one place.
- I designed this project to build an UI using the Atomic Design Principles to maximise reusability of the code in future related projects.
- The project uses Expo to combine React and React Native to develop a mobile app for multiple platforms.

GitCloud Backend - GitHub

Present

BACKEND (JAVA, SPRING BOOT, SPRING REST, HIBERNATE, OPENAPI)

Online

- A backend micro service project to provide an API to be used by GitCloud Frontend.
- The goal was to provide multiple interfaces to interact and manage the data. Currently only REST is implemented.
- This project uses Spring Boot and Spring REST. The data layer is Hibernate and PostgreSQL. The API is exposed using Swagger UI.

GitCloud Data Science - GitHub

Present

DATA SCIENCE (PYTHON, JUPYTER, PANDAS, FLASK, JINJA)

Online

- A data science micro service project to derive insights from the data in the GitCloud Backend service.
- This project was developed to allow me to analyse the data from all my repositories to find patterns to improve the code.
- This project uses Pandas and Jupyter for the data exportation and Flask and Jinja for the data presentation.

GitCloud DevOps - GitHub

Present

DEVOPS (BASH, DOCKER, DOCKER COMPOSE, KUBERNETES, HELM)

Online

- A devops project which is responsible for the deploying and managing micro services and their dependencies.
- The goal for this project was to abstract the different implementation details when deploying the GitCloud service to the cloud.
- The project uses Docker and Docker Compose to create Cloud Native images. Then deploys them to the cloud using Kubernetes and Helm.

Communities

AnkiCommunity

January 2019 - Present

FOUNDER

Online

- An open source community I developed to foster innovation of the open source Spaced Repetition Flashcard software called Anki.
- The community supports developers create and maintain open source software such as our new cloud native and on-prem API server in Django.
- My duties include maintaining the community culture, facilitating communication between contributors and defining the long term strategy for the community.

KCL Robotics

January 2015 - August 2017

VP OPERATIONS

Strand, London

- Managed day-to-day operations of the society in addition to running educational workshops such as Electronics for beginners; Lego Mindstorms Robotics; Arduino cars. I also assisted a Robotics PhD student in running Robotics in Agriculture workshop.

KCL Tech

July 2016 - July 2017

COMMITTEE MEMBER

Strand, London

- Hosted events such as a 12-hour hackathon; an 8-week beginner workshop on Android for beginners; while supporting on other events.

Achievements

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

Udacity Data Engineering Nanodegree, Data Modeling with Postgres and Cassandra; Cloud Data Warehouses with AWS Redshift; Data Lakes with Spark; Data Pipelines with Airflow

Coursera Deep Learning Specialization, Neural Networks and Deep Learning; Improving Deep Neural Networks; Structuring Machine Learning Projects; Convolutional Neural Networks; Sequence Models

Other Coursera Certificates, Applied Machine Learning in Python; Introduction to Interactive Programming; Crafting Quality Code

Shodan Black Belt, Jim Wilson's Karate Academy

ASA National Swim Awards, Levels 1 – 6

Interests and Activities

I like to keep busy with a variety of interest in various things with my health being one of them. I enjoy regularly visiting my local gym, listening to popular non-fiction audiobooks and podcasts to strengthen both my body and mind. I have also been learning to cook various cuisines of food. 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.