

Koustubh Sinkar

Computational Engineer



EXPERIENCE

Feb 2018 – Present

Sr. Software Engineer, Hexad, Berlin

- Leading an Agile (XP) team while practising TDD and Pair Programming
- Set up an ETL workflow with Apache Spark and AWS Glue to reduce query times from 8 hours to 2 minutes
- Replaced a legacy desktop dealer-facing application to a μ -services arch(Springboot) and Hybrid/PWA (Ionic) continuously integrated using Concourse
- Migrated μ -services app from CF to Kubernetes
- Migrated >1M records from disparate legacy systems

*Kotlin, Java, Python
pySpark, SpringBoot
MongoDB, MQTT
Cloudfoundry,
Concourse
Kubernetes, Docker
AWS CDK, AWS Glue
Apache Zepellin*

Aug 2016 – Jan 2018

Sr. Software Engineer, Globant, Pune

- Maintain a feed and conference engine with REST API
- Refactoring badly written code and decoupling dependencies
- WebRTC with Audio and Chat using EasyRTC
- Data Warehousing with ETL and Star Schema
- Background jobs with Sidekiq & Resque

*RoR, Git, PostgreSQL
Capistrano, Ubuntu
SAML 2.0
EasyRTC
ETL, OLTP
Sidekiq, Resque*

Aug 2013 – Feb 2015

Software Engineer, MangoApps, Pune

- Implemented SAML authentication and OAuth2
- Distributed realtime editing with Etherpad and NodeJS
- Browser Security Review of MangoApps
- Migrated Background jobs from DelayedJobs to Resque and Resque-Scheduler

*RoR, SVN, MySQL
SAML 2.0, OAuth 2.0
NodeJS, Etherpad
Brakeman
Resque, Redis*

Aug 2012 – July 2013

Lead Developer, Idyllic Software, Pune

- SPOC with the client to decide on a set of deliverable objectives for the project
- Lead a team of developers, designers and testers to achieve those goals
- Used TDD to maintain a minimum consistency in the quality of the delivered product
- Used Heroku for rapid deployment and delivery

*Ruby on Rails (RoR)
Heroku
PostgreSQL
jQuery, Javascript
HTML
Git*

Mar 2011 – Jul 2012

Software Engineer, Intellectap, Mumbai

- Designing Loan Products and integrating them into Mostfit (μ Finance SaaS)
- Implemented data exchange between Mostfit and Highmark Credit Bureau
- Implemented logic for Cross Verification of ledger entries across multiple CoAs in Molly (Accounting SaaS)

*Ruby, Merb, MySQL
Nginx, Ubuntu
Git, Gitolite
jQuery, Javascript
HTML*

Jun 2010 – Mar 2011

Embedded Systems Engineer, Megavision, Mumbai

- Developed a proximity based security system using the nRF24LU1+ from scratch
- Implemented the firmware using Embedded C and Keil
- Co-designed the hardware using Protel
- SPI communication of LPC2148 (ARM7 processor) to store data onto a μ SDcard

*C, C++
ARM
LPC2468, OMAP-L138
AVR
Atmega 8535, 161
8x51
P89V51RD2, nRF24LU1+*

VOLUNTEERING

July 2015 – Mar 2016 **KPC Volunteer, Rosen Herbs, Israel**

- Maintaining a Greenhouse
- Learning controlled agriculture techniques
- Acclimatizing with the local culture, learning about it

Jul 2014 – Jun 2015 **SAA, TMCP- East, Pune**

- Tend to club property
- Co-ordinate meetings

Jan 2014 – Jun 2014 **President, TMCP-East, Pune**

- Preside over all the meetings of the club
- Lead the club to financial viability
- Chief Executive Officer of the Club

Dec 2013 – Jul 2013 **VP-PR, TMCP, Pune**

- Promote the club to the local community
- Responsible for the club's web presence
- Increase the footfalls to events and club meetings

Dec 2011 – Jan 2012 **Yatri, Jagriti Yatra, India**

- Was part of a train journey, that travels throughout India exploring, studying and getting inspired by the solutions that are being created for India, by Indians
- Post Yatra, helped organize a clothes collection drive for Goonj, for two consecutive years

EDUCATION

Jun 2006 – May 2010 **University of Mumbai**
Thadomal Shahani Engg. College

Bachelor of Engineering
(Electronics & Telecommunication)

PROJECTS

iBluebottle

Part of the team that helped create and launch iBluebottle, a matrimonial web application for HNI Indians

Sankalp 2011

Master of Ceremony for the Agri track

B.E. Project

Compared two algorithms for object extraction from high resolution satellite images using OpenCV

LANGUAGES

c2	EN
c2	MR
c2	GJ
c1	HI
a2	DE
a1	ES
a1	IW

HOBBIES

postcrossing
philately
chess
philosophy
humans