



Hrishikesh Hiraskar

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Experience

INTERNSHIPS

Software Engineering Intern MAY 2017 – JUN 2017

HAQDARSHAK - MUMBAI [↗](#)

Full Stack development of Web App for monitoring records, using MySQL, Python Flask Server, and Material UI. Special role in optimizing database queries, developing user friendly and responsive UI. Added features like background syncing and on device generation of PDF (with word-processor) to hybrid Android app.

Software Engineering Intern AUG 2016 – DEC 2016

XCOS-ON-WEB - FOSSEE - IIT BOMBAY [↗](#)

Revamped the Server Architecture and implemented Dynamic Plotting of Hybrid Systems. My work was based on Python Flask server and HighCharts JS API.

START UPS

Lead Web, App and Product Developer IN PROGRESS

WHEELS ON ROLL - NITK [↗](#)

An Automated Cycle Rental IoT Service. Developing Android App using Firebase. Developed Website using MaterializeCSS & jQuery based on Google's Material Design. Developing IoT framework for automation of rentals using RPi. Developing backend using webapp2 and Google App Engine.

Lead App Developer IN PROGRESS

CHANGEPAY - NITK [↗](#)

A Cash-less, Card-less, Phone-less Payment Gateway. 596 registered users in NITK. Developing Android App based on Microsoft Azure Services. Implemented third-party services like MSG91 for OTP Authentication.

Selected Projects

All and more projects at : <https://github.com/Hrily>

SimpleDB ON GOING [↗](#)

Implementing core modules of a Relational Database Management System using JAVA, capable of handling storing and accessing data from disk, table modifications (Select, Join, Aggregates), Query Optimizer, Query Cost Calculator and locking-based transaction system.

NITK Website ON GOING [↗](#)

Worked on the Front-end Website Team for NITK Website using HTML, CSS and JS and front-end frameworks like Bootstrap, jQuery and Materialize CSS. Worked extensively on Mobile as well as Desktop View. Designed the Convocation sub site.

Notes::Nearby [↗](#)

Notes Nearby is an Augmented Reality based-app which takes Users' location to point to nearby restaurants and attractions. Developed an Android app using Microsoft Azure Database and Microsoft Cognitive Services for Speech-To-Text. Implemented AR in Android using sensors like GPS and Gyrometer.

SimOS - OS Course Project [↗](#)

Interactive Simulation of basic principles applied in Operating Systems. Special role in Inter-process communication, pipe-lining and server architecture. Led team of 11 members over a period of three months.

ZBot - Text Games ON GOING [↗](#)

Chat bot to play text based games from ZMachine. Under beta testing on Actions on Google (Apps for Google Assistant). Also developed Android App for the same, with Rich Material UI. (On Going)

Portfolio Website and Blog [↗](#)

Showcase of my work and all projects. Website is done using Material Design for website and using Ruby's Content Management System Framework Jekyll. For further information please visit, hrily.github.io.

Extra Curricular

- Executive Member at IEEE-NITK Student Branch.
- Executive Member and Web Master at Web Enthusiast's Club NITK.
- Mentor for [DBMS and Cloud Computing Summer Project 2017](#) at IEEE, NITK.
- Tweaking Android and Ubuntu for Personalization.
- Active Blog writing at [IEEE NITK](#) and Personal Blog.
- Desing portfolio maintained at hrily.github.io/Design
- Competitive Programming at [Codechef](#), [Uva](#), [Hackerrank](#).
- [HrilyScreens](#) Page on Facebook - Home Screen theming on Android.

Education

National Institute of Karnataka (NITK), Surathkal, Mangalore.

B.Tech. in Computer Engineering.
CGPA: 8.46 (May 2017)

Walchand College of Arts and Science, Solapur, Maharashtra.

Percentage - 93.43%. College Topper.
JEE Mains AIR - 3003.

S. R. Chandak English High School, Solapur, Maharashtra.

Percentage - 93.63%.

Technical Skills

LANGUAGES AND SCRIPTS

C, C++	●●●●	Python	●●●●
HTML/CSS	●●●●	JS/JQuery	●●●●
Java	●●●●	Android	●●●●
TypeScript	●●●●	Assembly	●●●●

DBMS

SQL, MySQL, Firebase, Android SQLite.

TOOLS AND FRAMEWORKS

MATLAB, Scilab, Android Studio, Angular, PhoneGap, Git, C++ STL, Vim, Photoshop, COREL Graphics Suite, Microsoft Azure, ThreeJS, MaterializeCSS, Jekyll.

Training and Courses

Oct 16
Google Applied CS with Android, at NITK.

Summer 16
Machine Learning, under ACM NITK.

Sep 16
Ethical Hacking, at Engineer NITK.

Jul 15
Android Development, NIIT Solapur.

ACADEMIC COURSES

Data Structures and Algorithms, Design and Analysis of Algorithms, Operating System, Automata Theory, Software Engineering, Computer Organization and Architecture, Data Communication, Object Oriented Programming, Concrete Mathematics.

Achievements

- Winner of Microsoft code.fun.do 2016-17 as well as 2015-16 Campus Hackathon at NITK.
- Represented College at Microsoft code.fun.do 2016-17 SHOWCASE, organized at Microsoft IDC, Hyderabad.
- Recipient of Reliance Dhirubhai Ambani Scholarship.
- Recipient of Maharashtra State High School Scholarship.