

Hrishikesh Hiraskar

Room D207, Mega Tower III, NITK Hostels, NITK, Surathkal, Mangalore, India - 575 025

Email hrishihiraskar@gmail.com

Phone

+91 8147 298 166

Website

https://hrily.github.io/

Experience

INTERNSHIPS

Software Engineering Intern MAY 2018 - IN PROGRESS

GOOGLE SUMMER OF CODE - HAIKU OS 👄

Developed TrackGit App - a Git add-on for File Browser. Used Libgit2 API's for execution of Git commands. Designed and implemented user interfaces for various git commands

Proposal. Wiki & Progress Reports. Prototype. Documentation

Software Engineering Intern MAY 2018 - JUL 2018

ARISTA NETWORKS - BANGALORE (=)

Worked on sharing of shadow memory of TCAM tables between agents. Special role in taking care of memory offsets for entries in table. The project lead to 13% reduction in memory usage. Also worked on enhancing product test functionality.

Software Engineering Intern MAY 2017 - JUN 2017

HAODARSHAK - 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

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. Also developing an Automated Cycle lock which uses RFID System and RPi.

Selected Projects

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

SimpleDB 👄

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.

Alignment of PIE AQM in Linux 🖘

The aim of this project was to identify the differences in Linux Kernel implementation of PIE and the RFC 8033 and to patch them. Testing for our changes was done using Flent (FLExible Network Tester) tool and the test used was RRUL (Real-time Response Under Load).

MDList 👄

An implementation of "An Efficient Lock-free Logarithmic Search Data Structure Based on Multi-dimensional List". The implementation was done in C++ & testing was done using Boost testing framework. The documentation was done using Doxygen. It was 200% faster in multi-threaded environment compared to C++ map.

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 10 members over a period of three months.

Zbot - Text Games 👄

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.

Extra Curricular

- Executive Member at IEEE-NITK Student Branch.
- Web and App Head at Web Enthusiast's Club
- 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.
- Design portfolio maintained at hrily.github.io/Design & Dribbble.
- Competitive Programming at Codechef, Uva, & Hackerrank
- HrilyScreens Page on Facebook Home Screen theming on Android.

Education

National Institute of Technology Karnataka, Surathkal.

B.Tech. in Computer Engineering. CGPA: 8.23 (Jul 2018)

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 SOURCE Java Android TypeScript Source 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.

OPEN SOURCE CONTRIBUTIONS

- Xcos-on-Web implemented Dynamic plotting of Hybrid Systems.
- Spidy made the crawler multi threaded.
- Browsix improved Terminal UI.

Training and Courses

Oct 2016

Google Applied CS with Android, at NITK.

Summer 2016

 $Machine \, Learning, under \, ACM \, NITK.$

Sep Zu II

Ethical Hacking, at Engineer NITK.

Jul 2015

Android Development, NIIT Solapur.

Achievements

- Paper "Matching Witness' Account with Mugshots for Forensic Applications" selected at IC3 2018.
- 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.