

# MRUNAL HIRVE

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LinkedIn: <https://www.linkedin.com/in/mrunal-hirve>; Website: <https://mrunalhirve12.github.io/Portfolio/About>

Actively seeking for a **Full time** role as **Software Developer/Engineer** starting **June 2019**, to leverage acquired technical and analytical skills to contribute in creating reliable and robust software's. **Open for Relocation**

## ACADEMIC DETAILS

**Masters in Computer Science**, - [Portland State University, Oregon](#) [Sept 2017- June 2019]

**Courses:** Design and Analysis of Algorithms, Full Stack Web Dev, Embedded Systems Programming, Programming Languages, Internetworking Protocols, Internet & Cloud, Advanced Concept of Operating Systems, **GPA: 3.50**

**Bachelor of Engineering in Computer Science**- [Pune University, India](#) [Aug 2011 - July 2015]

**Courses:** Computer Networking, Operating Systems, Relational Database Management, and Artificial Intelligence **GPA: 3.50**

## SKILLS

- **Programming/Languages** **(Advanced)** Python, C#, SQL; **(Intermediate)** Bash, Java, C, C++
- **Web Technologies** Javascript, JQuery, Node, React, Moment, Socket, HTML, CSS, Bootstrap, PHP
- **Cloud Platforms and Containers** Google Cloud Platform& Docker, Kubernetes
- **Version Control System** GitHub, Bit Bucket, Microsoft Team Foundation Server
- **Database** SQL Server, Db2, MySQL, PostGre, Oracle 10g
- **Frameworks** LDAP, Android Studio SDK, Service Stack, Postman, Flask, Django, ASP.Net MVC, N-Unit, Open Cover
- **Operating Systems** Windows, Linux, Mac OS

## PROFESSIONAL SUMMARY

**Synopsys Inc., Mountain View, California** [June 2018 - Oct 2018]

Software Engineer Intern

- Improved the existing crown job based authentication system, by implementing server-side authentication on Apache with integration of LDAP.
- Build a live dashboard to initiate data driven decisions impacting usage of emulators using Django framework.
- Implemented and optimized server-side redirections in Apache using PHP scripting.

**Cybage Software's Pvt. Ltd., India** [Oct 2015 - May 2017]

Software Developer

- Experienced in implementing, troubleshooting and testing Applications in .Net framework - ASP.Net MVC, C#, F#, SQL Server in Agile environment.
- Increase performance of Database operations by ~15% by developing storage services and workflows
- Successfully implementing REST API's.
- Enhanced performance by implementing database scripting and crown jobs that streamlined processes, increased accuracy and lowered costs.

**Tata Institute of Fundamental Research, India** [June 2014- June 2015]

Software Developer Intern,

- Successfully developed a Web-based application- Inventory Management System (IMS) for Cosmic Ray Detectors of GRAPES-3 Experiment, India

## ACADEMIC PROJECT WORK: <https://github.com/mrunalhirve12>

**WeatherWise (React, JavaScript, Node, Express, OpenWeatherMap API, Postgres, JSON, [Link](#))** [Jan 2019- Mar 2019]

- A web application that predicts present day weather or future weather forecast of a week for a particular city.

**Fluent FTP (C#, [Link](#))** [Jan 2019- Mar 2019]

- Implemented a FTP client that performs all operation of file transfer between local and remote server

**PerceptoBot (Android, Java, ML API's, Raspberry Pi, Google Firebase, Python, [Link](#))** [Oct 2018- Dec 2018]

- Built an **IOT application** that controls the bot using android application which reads the accelerometer values and controls the movement of the bot, features like face detection using ML libraries and live video streaming are also implemented.

**AutoHome (Android Programming -Java, Raspberry Pi, Google Firebase, [Link](#))** [Oct 2018- Dec 2018]

- Developed an **IOT** home automation android application that helps to monitor appliances such as DC motor, LED's and temperature using Raspberry Pi and Google Firebase.

**QuizTime (Android Programming -Java, JSON, [Link](#))** [Oct 2018- Dec 2018]

- A multi-activity quiz application that supports multiple quizzes each with sets of MCQ's read from JSON file.

**Street Sign Translator (Django, Python, HTML, CSS, Bootstrap, sqlite3, GCP, ML API's, [Link](#))** [Mar 2018- May 2018]

- Developed and deployed an application in Google Cloud Platform through which user can upload any image of street sign in any foreign language. The apps identify the original language and converts it to target language- English

**Review your Courses (Python Flask, Bootstrap, GCP, Docker, MySQL, HTML, [Link](#))****[Mar 2018 –May 2018]**

- Developed a MVC application in Flask that review courses, supports CRUD operations. Deployed on GCP by creating docker image of the application.

**Schedulism (Python, Docker, Google Cloud Platform, [Link](#))****[Mar 2018 –May 2018]**

- Developed a web application for comparing the Linux Completely Fair scheduler(CFS) with FIFO and RR based on parameters such as turnaround time, wait time and completion time.

**Internet Relay Chat Application (Python, socket programming, TCP, [Link](#))****[Sep 2017 – Dec 2017]**

- Implemented a Multi-Client Chat application utility using TCP protocol that supports multiple users to communicate via messages with each other in common "virtual" rooms.

**Kernel Resource Manager in Uniprocessor (KPL)****[Sep 2017 – Dec 2017]**

- Successfully developed a uniprocessor operating system kernel with multithreading and synchronization primitives

**CO-CURRICULAR**

- Microsoft Technology Associate (MTA) certificate in C#, License E335-0578
- Member of Computer Society India June'11-June'15