MRUNAL HIRVE

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Computer Science Graduate student actively looking for a Full time position staring June 2019. Open for Relocation

ACADEMICS

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

Courses: Design and Analysis of Algorithms, Full Stack Web Dev, Programming Languages, Internet & Cloud, Internetworking Protocols, Agile Methodologies, Mobile and Wireless, Operating Systems   **GPA: 3.50**

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

Courses: Relational Database Management, Computer Networking, Object Oriented   **GPA: 3.50**

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

SKILLS

- **Programming/Languages**   **(Proficient)** 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& Dockers, Kubernetes
- **Version Control System**   GitHub, Bit Bucket, Microsoft Team Foundation Server
- **Database**   SQL Server, MySQL, PostGre, Oracle 10g
- **Frameworks**   LDAP**,** Android Studio, Service Stack, Postman, Flask, DJango, ASP.Net MVC, N-Unit, Open Cover

ACADEMIC PROJECTS: https://github.com/mrunalhirve12

Weather Wise (React, JavaScript, Node, Express, OpenWeatherMap API, Postgres, JSON, Link)   **[Winter 2019]**

- Developed a web application that predicts present day weather or future weather forecast of a week for a particular city by retrieving live data from OpenWeatherMap API. Improved the response time by caching data server side.

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

- Developed Web application and deployed on GCP. User can upload an image of street sign in any foreign language. The apps identify the original language and convert it to target language- English using Machine Learning API's.

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

- Developed a Scheduling Simulator to compare different scheduling algorithms with Linux CPU scheduler (CFS). Achieved 30% accuracy increase in current CFS with improved algorithm

Internet Relay Chat Application (Python, socket programming, 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.

PROFESSIONAL SUMMARY

Deep-share(Open source platform): Graduate Student Researcher   **[Mar 2019 –Present]**

- Working on barter-based system it allows a user to offer their own computational resources.**(Linux environment)**
- Performing analysis and comparison of REST API's and **GraphQL** on MultiCluster Node (Apache Spark and Apache Hadoop)

Synopsys Inc., Mountain View, CA: Software Engineer Intern   **[June 2018 – Oct 2018]**

- Worked on improvising the existing cron job based authentication system, by implementing server-side authentication on Apache by integration with LDAP configurations (CentOs)
- Designed and developed a live dashboard to initiate data driven decisions impacting usage of **emulators using Python Django framework**, MySQL, Javascript, HTML, CSS, bootstrap.
- Implemented server-side redirection in Apache using PHP scripting.

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

- Designed and developed ERP Web based application in .Net framework, ASP .Net MVC, C#, SQL .
- Improved and managed database performance by using **backend query optimizations** by writing indexes, stored procedures; enhancing **performance by ~15%.**
- Developed backend workflows by **implementing Restful API's** and storage services that increased the performance by caching.
- Implemented unit test transactions to find, isolate and rectify issues. **Increased the code coverage by 20%.**
- Active team player. Participated in Agile environment, code reviews, scrum, and retrospectives.
- Proven track record of proper documentation for future maintenance and upgrades

Tata Institute of Fundamental Research: Project Intern   **[Jun 2014 – Jun 2015]**

- Developed a Web-based application using PHP, SQL, CSS, bootstrap, AJAX, Javascript which provides a centralized automated maintenance of records and components of cosmic ray detectors for GRAPES 3 experiment in India; followed **SDLC phases** from prototyping through application, coding, unit & integration testing and deployment of application