Sagar Suresh **Panchal**

***Software Developer***

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| Receiver [+1 (812) 369-2183](tel://812-369-2183/) | [sagarpanchal8793](mailto:sagarpanchal8793@gmail.com) | [sagarpanchal8793](http://www.linkedin.com/in/sagarpanchal8793)  [This Photo](http://www.cunninglemon.com/about.html) by Unknown Author is licensed under [CC BY-SA](https://creativecommons.org/licenses/by-sa/3.0/) | [sagarpanchal8793](http://www.github.com/sagarpanchal8793)  [This Photo](https://fr.wikipedia.org/wiki/GitHub) by Unknown Author is licensed under [CC BY-SA](https://creativecommons.org/licenses/by-sa/3.0/) |

# Education

* **Master of Science (MS) in Computer Science**, *Indiana University Bloomington, USA* – **3.92 CGPA** *Aug 17 – May 19*
* **Bachelor of Engineering (BE) in Computer Engineering**,*University of Mumbai, India* – **3.47CGPA** *Aug 12 – May 15*
* **Diploma in Computer Engineering,** *University of Mumbai, India* – **87.81%** *Aug 09 – May 12*

# Work Experience

**Bloom Insurance Agency**, *Software Developer Intern**May 18 – May 19*

* Developed features like Bulk Resource (Docs) Upload in an enterprise facing product line using **C#** & **ASP .NET** technologies
* Participated in **code reviews,** followed **Agile (SCRUM)** methodology, used **Bitbucket** as VCS, **JIRA** for Issue Tracking and **Jenkins** as Build and CI/CD tool

**Larsen and Toubro Infotech (LTI)**, *Software Engineer**Jul 15 – Jul 17*

* Analysed business requirements, domain specifications and developed applications for a major Oil and Gas client.
* Reduced client cost of **$77K** by amalgamating the work of 5 remote servers into a centralized server for auto indexing application, built in **C#, ASP.NET MVC** using **Telerik UI controls, Entity Framework, Oracle and MSSQL** server.
* Lead, trained and mentored **a sub-team of 3** throughout the project milestone.
* Recommended **14 profitable** process improvements that extensively minimized client’s as well as team efforts.

# Academic Projects

[**NetBoox**](https://github.com/airavata-courses/NetBoox)*Aug 18 – Dec 18*

* Implemented an on-demand Book reading platform for application subscribers (like Netflix).
* Built in microservices based architecture using **Docker**, **Node JS**, **Java Jersey**, **Python Flask**, **Mongo DB**, **Jenkins**, **Kafka, Zookeeper.**

[**News Recommendation Using Knowledge Graph**](https://github.com/sagarpanchal8793/news_recommendation_using_knowledge_graph)*Jan 18 – May 18*

* Jointly developed News recommendation system using **Neo4j** and **Python** by interfacing them using **neo4jrestclient** library.
* Implemented Content based & Collaborative based filtering algorithm techniques to recommend news.

[**Action List API**](https://github.com/p632-sp-2018/action-list-api)*Jan 18 – May 18*

* Collaboratively emerged a Data API using **GraphQL** and **Java Spring Boot,** to fetch data as per user preference & **Dockerized** it.
* Used **Maven, GitHub Workflow**, **JUnit, Travis CI, Code Climate, Spring REST Documentation, Postman, JIRA, Confluence.**

[**Gamify**](http://homes.soic.indiana.edu/prbhat/)*Aug 17 – Dec 17*

* Built a social network web application for sports enthusiasts to collaborate, meet & play together with people of similar interest.
* Developed in a team of **four** & technologies used were **JavaScript, PHP, HTML, CSS, Bootstrap and MySQL** database.

[**Image Classification**](https://github.com/sagarpanchal8793/Supervised-Machine-Learning) *Sep 17 – Oct 17*

* Implemented **supervised machine learning** classifiers like **k-nearest neighbors, Adaboost and Neural-Networks** in **Python** for image classification by training on a corpus of **36K** images & achieving accuracy of **83%** on test set of **1K** images.

[**Gujarati Wordnet**](https://github.com/sagarpanchal8793/Gujarati-Wordnet) *Jan 15 – May 15*

* Created WordNet application for **Gujarati Language** which uses a lexical database comprising **synsets**, relationship between them & gives usage examples to understand the word. Published a paper, known as [Gujarati Wordnet – A Lexical Database](http://research.ijcaonline.org/volume116/number20/pxc3902803.pdf).

# Skillset

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| Related Coursework: | **Machine Learning in Signal Processing**, Science Gateway Architectures, **Object Oriented Software Engineering** & Management, Artificial Intelligence, **Data Structures & Algorithms**, SQL NoSQL, Advanced Operating System |
| API & Programming Languages: | **React JS**, Node JS, **GraphQL**, **Python**, C#, Java, Vue JS, Python Flask, **Java Jersey**, C, C++, Coffee Script, **Cypher**, XML DTD, XPath, XQuery, Vanilla JS, PHP, jQuery, HTML5, CSS3, Bootstrap, Ajax |
| Frameworks & IDE’s: | **Kubernetes**, **Docker**, Spring Boot, **Dot Net**, **MVC**, Entity Framework, Infragistics UI, Telerik UI, IntelliJ, PyCharm, MS Visual Studio, STS |
| Databases: | Neo4j, MongoDB, Redis, HBase, XML, MySQL, MSSQL, Oracle |
| Project Utility: | **GitHub**, Bitbucket, **Travis CI**, **Jenkins**, **Raygun**, Code Climate, JUnit, Confluence, TFS, **Spring REST Docs** |
| Certifications: | C# 4.0 from IKM, Basic orientation to Industry Business using SAP ABAP programming |

# Extra-Curricular Activities

* Serving as the **President** of the **‘Cricket Club’** at Indiana University. (registered by IU Club Sports Federation). *Apr 18 – May 19*
* **Chief** of **‘Infra and Security’** council for annual technical and cultural events in KJSCE. *Jun 14 – May 15*
* Secured a **Runner Up** trophy in **Volleyball Tournament** in Skream-15’, a State Level Sports Summit. *March 15*