Sagar Suresh **Panchal**
Software Developer

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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* – **3.47 CGPA**   *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   *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   *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   *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   *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   *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   *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.

Skillset

Related Coursework:	**Machine Learning in Signal Processing**, Science Gateway Architectures, **Object Oriented Software Engineering** & Management, Artificial Intelligence, **Data Structures & Algorithms**, SQL & NoSQL, Advanced Operating Systems
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*