Sagar Suresh **Panchal**
Software Developer

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Education

- Master of Science (MS) in Computer Science, *Indiana University Bloomington, USA* – 3.92 CGPA　　*August 2017 – May 2019*
- Bachelor of Engineering (BE) in Computer Engineering, *University of Mumbai, India* – 3.47 CGPA　　*August 2012 – May 2015*
- Diploma in Computer Engineering, *University of Mumbai, India* – 87.81%　　*August 2009 – May 2012*

Work Experience

Bloom Insurance Agency, *Software Developer (Internship: May 18 – Apr 19)*　　*June 2019 – Present*
- Improved workforce **efficiency up to 65%** by developing features like **bulk upload** of Resources (docs) and Seminars.
- Implemented continuous monitoring and tracking of exceptions across environments using tools such as **SeriLog** and **Raygun**.
- Improved web accessibility for web apps using **Web Content Accessibility Guidelines** (WCAG) 2.0 standards, primarily for people with disabilities.
- Performed unit tests, resolved bugs and successfully **deployed applications** which are being used by over thousands of users.
- Trained interns and co-workers on existing infrastructure and best practices, 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*　　*July 2015 – July 2017*
- 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
- Lead trained and mentored **a sub-team of 3** throughout the aforementioned project milestone.
- Recommended **14 profitable** process improvements that extensively minimized client's as well as team efforts.
- Performed static and dynamic code analysis using **HP Fortify Software Security Center** to analyze and rectify vulnerabilities.

Projects

NetBoox　　*August 2018 – December 2018*
- 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　　*January 2018 – May 2018*
- 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　　*January 2018 – May 2018*
- 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　　*August 2017 – December 2017*
- 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　　*September 2017 – October 2017*
- 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.

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:	**Java**, **C#**, **Python**, Node JS, **GraphQL**, 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, Spring Tool Suite
Databases:	Neo4j, **MongoDB**, Redis, HBase, XML, MySQL, MSSQL, Oracle
Project Utility:	**GitHub**, Bitbucket, **Travis CI**, **Jenkins**, **Raygun**, Serilog, 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

- **President** of the 'Cricket Club' at Indiana University. (registered by IU Club Sports).　　*April 2018 – May 2019*
- **Chief** of 'Infra and Security' council for annual technical and cultural events in KJSCE.　　*June 2014 – May 2015*
- Secured a **Runner Up** trophy in **Volleyball Tournament** in Skream-15', a State Level Sports Summit.　　*March 2015*