# Shaswat Babhulgaonkar

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## CAREER SUMMARY
Highly motivated and dynamic Computer Science Master's student currently working as a Software Engineer Affiliate at Berkeley Lab having professional experience in Software Development and Machine Learning looking for full-time opportunities from May 2021.

## EDUCATION
**Master of Science: Computer Science**      **California State University East Bay, USA**      **(GPA: 3.57/4.0)**

**Courses:** Advanced Algorithms, Machine Learning, Web Systems, Cloud Computing, Probability and Stats.    **(Expected May 2021)**

**Bachelor of Engineering: Computer**      **Savitribai Phule Pune University, India**      **(GPA: 8.25/10.0)**

**Courses:** Software Engineering, Data Structures and Algorithms, Artificial Intelligence, Data Mining and Analytics, Database Systems

## TECHNICAL SKILLS
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|---|---|
| **Programming Languages:** | Java, Python, C++ |
| **Web Technologies:** | HTML5, CSS3, JavaScript, AJAX, Node.js, ReactJS, Express.js, JSON, Rest API |
| **Databases:** | MySQL, NoSQL, DynamoDB, MongoDB, Microsoft Access |
| **Machine Learning Tools:** | Scikit-learn, Keras, PyTorch, TensorFlow, Deep Neural Networks, NLP, Jupyter Notebook |
| **Cloud Platform:** | AWS lambda, EC2, S3, Microsoft Azure, Google Cloud Platform, Docker, Kubernetes |
| **IDE and other Tools:** | Eclipse, IntelliJ, PyCharm, Android Studio, Visual Studio, Git, Jest Agile, Scrum |

## WORK EXPERIENCE
**Software Engineer Affiliate**      **BERKELEY LAB, Berkeley, USA**      **(Jun 2020 – Present)**
- Currently working on software research project machine learning prediction of fracture growth in rocks present in earth's subsurface
- Explored experimental results to understand and prepare the dataset using Exploratory Data Analysis and Data Cleaning process.
- Used various supervised and unsupervised machine learning techniques and deep neural networks to model the data for prediction

**Software Developer**      **WE33RAS IT PVT. LTD, Pune, INDIA**      **(Jul 2018 - Jul 2019)**
- Developed UI for business application using HTML5, CSS3, JavaScript, React with Node.js used for backend server-side scripting.
- Implemented a system for management of finances using Java applets with MySQL used as a database.
- Used GitHub for continuous integration of code and continuous deployment and reduced the deployment times by 20%.
- Worked as a Full Stack developer using Agile methodologies and managed the role of Scrum Master.
- Led a team of software developers to assure best practices of the full software development life cycle process for software products

**Software Developer**      **WERAS INFOTECH, Vaijapur, INDIA**      **(Sep 2017 - Jun 2018)**
- Worked on the object-oriented design workflow that improved the company's website overall system performance.
- Assisted in Restful API development using Node.js along with Express.js working with MongoDB to provide a robust set of services.
- Optimized query code according to given technical specifications and collaborated with team members to ensure functionality.
- Actively involved in design, development and implementation of software applications that satisfy core business requirements.

## PROJECTS
**Tour Company Application –** Web Application  [project link]
Developed a multi-user web application for a fictional tour company that takes it customers on tours. Implemented various modern front-end and server-side web development techniques. **Tools:-** *HTML5, CSS3, JavaScript, Node.js, ReactJS, ExpressJS.*

**Machine Learning for Prediction and Diagnosis of Cardiovascular Diseases –** Machine Learning  [project link]
Designed a system which can predict the risk of Heart Disease based on certain medical tests. Multi-layer Perceptron Neural Networks provided highest accuracy of 86% among various implemented machine learning algorithms. **Tools:-** *ML models, Neural Networks.*

**Handwritten Digit Recognition –** Machine Learning and Deep Learning  [project link]
Built and design a tool to do automatic evaluation of handwritten digits. Implemented some of the most widely used machine learning and deep learning algorithms to compare the accuracy and results. **Tools:-** *Keras, Tensorflow, Scikit-learn, Neural Networks, Python.*

**Twitter Sentiment Analysis –** Natural Language Processing  [project link]
Implemented an opinion mining to do sentiment analysis of any topic by parsing the tweets fetched from Twitter to classify each tweet as positive, negative or neutral. **Tools:-** *Python, Twitter API, Tweepy, TextBlob, NLP*

**Android Smart City Traveler –** Android Application  [project link]
Developed android application that creates a schedule for traveler travelling to city and wanted to explore the city by specifying time in hours. App led to quicker decision making with respect to places to visit. **Tools:-** *Java, Android Studio, ASP.NET, Foursquare API*

## RESEARCH PUBLICATIONS
**Prediction and Diagnosis of Cardiovascular Diseases using Machine Learning:** Published in IJIRT Journal 2019 [paper]
**Artificial Intelligence making Driverless Cars Smarter:** Presented at IEEE ICKDST Conference and Published in IJCEA 2018 [paper]
**Mind Reading Computer Technology:** Published in IJSRCSEIT Journal 2017 [paper]

## CERTIFICATIONS
- **AWS Fundamentals Specialization:** Certified by Coursera - AWS
- **Applied Machine Learning:** Certified by LinkedIn Learning - LinkedIn
- **Modern Application Development:** Certified by IIT Madras
- **Database Systems:** Certified by NPTEL - IIT Kanpur