OMKAR THORAT

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EDUCATION

State University of New York at Buffalo

MS, Computer Science
GPA: NA | Buffalo, NY | May 2020

Vidyalankar Institute of Technology

Bachelor of Engineering, IT
GPA: 7.82 | Mumbai, India | August 2017

SKILLS

Programming Languages: C, C++, Python, Java, SQL, HTML, CSS, PHP, JavaScript, ASP.NET.

Technologies / Frameworks: Java Spring Framework, Hibernate ORM, AJAX, JSP, Bootstrap, JSTL, Tenserflow, Numpy, Sklearn, Pandas

Databases: MySQL, Oracle 11g

Operating System: Windows, Ubuntu, Android

Version Control: Working knowledge of GitHub

AWARDS

Represented Vidyalankar Institute of Technology at inter-college project competition - **2017**

COURSEWORK

- Algorithm Analysis and Design
- Introduction to Machine Learning
- Advanced Machine Learning
- Computer Vision and Image Processing
- Distributed Systems

CERTIFICATIONS

- 'Complete Python Bootcamp' from Udemy
- 'Introduction to Machine Learning' from Udacity

EXTRA CURRICULARS

Volunteer at Making a Difference Foundation

- Refurbished 36 Railway Stations in 1 week

President of Information Technology Students Association (ITSA)

- Led 700 students and organized LAN gaming event which had turnout of 1200 people over 3 days

RELEVANT EXPERIENCE

Associate Consultant | Oracle Financial Services Software | India | Sept 2017 – May 2018

- Customization and development of Flexcube Universal Banking Solution modules as per client requirements using Java, PL/SQL, JS and RAD tool.
- Worked on the development of Gateway interface using XML parsing, PL/SQL and Java which allowed the client to process/request data from Flexcube through web services.

Web Developer Intern | Smokinguns.etc | Mumbai, India | July 2017 – August 2017

- Developed an ecommerce website that supported booking venues and various other services provided by the company.
- Website was primarily built using JS, HTML, CSS3 and Bootstrap. Used MySQL database to support infrastructure.

PROJECTS

Digit Recognition in Machine Learning | September 2018 – Present

- Model was trained using Logistic Regression, Neural Network designed from scratch on MNIST and USPS dataset containing approximately 80,000 images of hand written digits from 0 to 9. Accuracy of 94% was achieved.
- Working on SVM, Random Forest using libraries like Tenserflow, Numpy, Pandas, Keras, etc as part of coursework.

Image Processing and Recognition | September 2018 – Present

- Implemented SIFT algorithm from scratch for detecting keypoints in an image.
- Implemented a robust homography and fundamental matrix estimation to register pair of images separated by a 2D or 3D projective transformation.

ShapeUp | September 2017 – April 2018

- Developed an Android Application oriented towards fitness enthusiasts for health and wellness that provide a balanced diet plan based on the user's physical condition and lifestyle, and suggests exercises tailored for the user.
- Provides a chat interface for users to interact with each other as well as get expert advice from professionals that have signed on with the app.
- Google Firebase was used to maintain dynamic database for the chat message.

Campus Cloud | July 2016 – April 2017

- Developed a community cloud service for academic and non-academic institutions that provides an institute management system as well as customer interaction avenues.
- Web application was developed using HTML5, CSS3 and AJAX for front end, Spring Framework for application development, Hibernate ORM for database integration and MySQL for database.
- Android application for ease of access was developed using the Android SDK.
- Deployment was done using Apache Tomcat Server running on EC2 instance provided by AWS.

Sport News Website | July 2015 – December 2015

- Developed and hosted a dynamic website that displayed sports related news.
- Utilized HTML5, CSS3 and JavaScript for front end, PHP for business logic and MySQL for database.

Web Application Development | Jan 2015 – May 2015

- Developed an ecommerce web that supported shopping cart and online payment.
- Utilized ASP.NET for Web Application which handled the backend and database integration.
- Used MySQL database to support infrastructure and HTML5, CSS3, JavaScript to control the user interface.