Sumit Tamgale

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EDUCATION

Aug'18-present   ILLINOIS INSTITUTE OF TECHNOLOGY   Chicago, IL, USA
Master of Science in Computer Science (Expected May 2020)
- Relevant Coursework: Design and Analysis of Algorithms, Software Systems Architectures, Object-Oriented Application Development, Machine Learning, Computer Vision, Geospatial Vision and Visualization
- Recipient of the Graduate Pathways Scholarship

Aug'14-May'18   SGGS INSTITUTE OF ENGINEERING AND TECHNOLOGY   Nanded, MH, India
Bachelor of Technology in Computer Science and Engineering
- Relevant Coursework: Data Structures, Algorithms, Statistics, Calculus, Database Systems, Operating System Concepts, Software Engineering, Unix System Programming, Networking, Distributed Computing, Neural Networks, etc.
- GPA: 7.27 (On the scale of 10)

EXPERIENCE

Jan'18-Aug'18   SARVAHA SYSTEMS PVT. LTD.   Pune, MH, India
Software Engineering Intern (Jan'18-Apr'18)
- Designed and implemented an information retrieval system to perform logical search queries on raw resume files
- The information retrieval system achieved an F1 score of 0.87 on an internally developed robust dataset

Software Engineer (Jun'18-Jul'18)
- Implemented a configurable customer support chatbot system prototype along with it's admin console
- Designed and reengineered the chatbot admin console to allow highest degree of configuration options

Nov'16-Apr'17   SWISH TECH LLP   Pune, MH, India
Intern - Backend Lead
- Developed secure REST API to support an IoT based application that performs real time event management
- Collaborated with project manager to design data model, formulate software architecture and plan implementation

PROJECTS AND PUBLICATIONS

Jan'18-Apr'18   NEW POSITION ESTIMATION ALGORITHM   Ahmedabad, GJ, India
Project Lead, Department of Space (ISRO), Smart India Hackathon 2018
- Led a team of six to develop a position estimation algorithm that uses the range differences from 4 satellites to estimate position coordinates of the receiver
- Tested the algorithm on ISRO's real satellite data to measure performance of the algorithm

Aug'17-Dec'17   DISGUISED FACE CLASSIFICATION (LINK TO PAPER)   Coimbatore, TN, India
Lead Author, IEEE International Conference on Computational Intelligence and Computing Research 2017
- Designed and trained a deep learning system to classify disguised faces and prevent fraud ATM transactions
- Achieved an accuracy of 90.53% using a network of 3 convolutional layers followed by 3 fully connected layers

Dec'16-Apr'17   THEME BASED VIDEO EXPLORER   Bhubaneswar, OR, India
Team Member, Department of Biotechnology, Smart India Hackathon 2017
- The application allows users to browse and stream videos from any web node through a single customizable interface
- Implemented a web scraper to scrape videos and streaming engine to stream videos efficiently

Aug'16-Oct'16   CHESS CLOCK   Nanded, MH, India
Project Lead, Independent Academic Project
- Designed and implemented a standalone chess clock application from scratch using Java threads
- Leveraged Java swing, multithreading and event handling to achieve cross platform compatibility

SKILLS

- Competitive Programming, Software Engineering, Problem Solving, Design and Analysis of Algorithms, Machine Learning, Image Processing, Deep Learning, Relational Data Modeling, REST API
- C, C++, Java, Python, JavaScript, SQL, Spring, TensorFlow, Flask, OpenCV, Elasticsearch, jQuery, DeepLearning4J, NumPy, SciPy, Git, Docker

AWARDS AND ACHIEVEMENTS

- Best Paper Award - IEEE International Conference on Computational Intelligence and Computing Research 2017
- Winner - Smart India Hackathon 2017 (Department of Biotechnology), Ministry of Science and Technology, Govt. of India
- Winner - C Brain 2017 - SGGS Institute of Engineering and Technology, Nanded MH, India
- Runner up - Code-em-gamble 2016 - SGGS Institute of Engineering and Technology, Nanded MH, India
- Ranked 549 & 686 globally in TCS Codevita 2016 round 1 & 2 respectively
- Qualified - ACM ICPC Asia Site Regional Contest 2017