Nikhil Sulegaon

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EDUCATION

University of Colorado Boulder

Boulder, CO

Master of Science in Computer Science; GPA: 3.8/4.0 Aug 2017 – Present (Expected: May 2019)
Relevant courses: Machine Learning, NLP, Probabilistic models for Machine learning, and Computer Vision.

BMS College of Engineering

Bangalore, India

Bachelor of Engineering in Information Science and Engineering; GPA: 8.92/10.0 Sep 2011 – May 2015 Relevant courses: Data Structures using C, Design and Analysis of Algorithms, Operating Systems and Databases

Programming Skills

- Languages: Python, C#, Java, Ruby, C++, C, PHP, and NodeJs.
- Frameworks: Keras, Theano, Tensorflow, ASP.NET, Flask, Ruby on Rails, SpringMVC, ReactJs with Redux.
- Databases: MS SQL Server, Postgres, MySQL, and MongoDB.
- Others: Android, Git, AWS, Heroku, CI, Docker, HTML/CSS, JavaScript, Shell scripting, and Powershell.

EXPERIENCE

University of Colorado Boulder

Boulder, CO

Teaching Assistant - Software tools and methodologies

Sep 2017 - Present

- o Teaching 60 students, full stack development and deployment of applications using core Agile principles and TDD.
- $\circ \ \ \text{Training students on technologies like Shell Scripting, HTML/CSS, JS, Git, REST, MySQL, PHP, CI, and Heroku.}$
- This position also involves guiding and advising students on their academic and personal projects.
- Thought Works A staunch Agile company focused on quality of its deliverables

 Application Developer

Bangalore, India

Aug 2015 - Aug 2017

Developed software using Agile practices like Test Driven Development, Continuous Integration and Delivery.

- Project Management Tool(C#, Silverlight, ASP.NET)(for the largest consulting firm in the world): Predominantly worked on building a robust backend through TDD using C#. Applied appropriate refactoring techniques to a legacy code base and increased the test coverage from 16% to 65%. Contributed to optimizing extremely complex SQL queries thereby improving the performance of many key features by around 80%.
- Food-Supplies Management(Python, Sklearn, Keras): Worked on a stock management tool to help the pantry of the office plan the supply of fruits, vegetables, and grocery better in order to minimize wastage of food.
- Danglay(Ruby, Ruby on Rails): Built a scalable carpooling web application using Ruby on Rails to solve the problem of commute faced by numerous employees at ThoughtWorks.

FreeLancing - Embedded System Prototyping

Bangalore, India

- Designed electronic prototypes of various Assistive Technology and Home Automation devices. Oct 2014 June 2015
 - EMG Controlled Wheelchair(Arduino, C): A wheelchair which was controlled by an electromyograph, aimed at helping paraplegic patients move around. This system could also be controlled by a voice recognition unit.
 - Surveillance System(Java, Android, Python, C): Security system that enabled the owner to control the entrance gates and lockdown the house. This system also provided live surveillance of the house on a smart-phone.

PROJECTS

- Object 3D Pose Estimation(Python, Tensorflow, C#, Unity): Using Neural Nets to deduce a dynamic object's 3D location(x, y, z) and rotation(roll, pitch, yaw). This information is piped to an AR head-mounted display to generate real and virtual object interactions. Links: Demo, Paper(Report), GitHub.
- Navisys(Java, Android, Python, C, OpenCV): Designed an embedded system, fitted into a wearable jacket, that provided turn-by-turn navigation with dynamic obstacle detection to visually impaired users. Ultrasonic sensors the crux of the obstacle detection unit, were later replaced by a Convolution Neural Net to increase performance by 20%. Links: Report, Synopsis.
- Teacher's cube(Python, Bash): Electronic mnemonic cubes, representing alphabets of a language, that pronounced the word formed when arranged one beside the other. Aimed to help dyslexic children formulate and pronounce words.

Achievements

• Won the 'Best Research Project' award at the IEEE International Advance Computing Conference 2015, held at B.M.S College of Engineering. The project also featured in the *local newspaper(link)* for its novel approach of implementation.