

# Nikhil Sulegaon

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## EDUCATION

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- **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 ML, Computer Vision, and, Object Oriented Design.*
  - **BMS College of Engineering** Bangalore, India
  - **Bachelor of Engineering** in *Information Science and Engineering*; **GPA: 8.92/10.0** *Sep 2011 – May 2015*

## PROGRAMMING SKILLS

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- **Languages:** Python, C#, Java, Ruby, C++, C, PHP, MATLAB, and NodeJs.
- **Frameworks:** Tensorflow, Keras, 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

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- **Teaching Assistant** (S/W Dev Methods & Tools) - **University of Colorado Boulder** Sep 2017 - Present
  - Teaching 60 students, full stack development and deployment of applications using core Agile principles and TDD.
  - Training students on technologies like Shell Scripting, HTML/CSS, JS, Git, REST, MySQL, PHP, CI, and Heroku.
- **Application Developer** - **ThoughtWorks**, Bangalore, India Aug 2015 - Aug 2017
  - **Project Management Tool (C#, Silverlight, ASP.NET):** A Multi-tenant SaaS application having about 2000 tenants and 2000-5000 users per tenant.
    - \* Spearheaded the re-architecture of the legacy application using Test Driven Development for scale.
    - \* Refactored the code base by introducing design patterns. Also increased the test coverage from 16% to 65%.
    - \* Optimized complex SQL queries to improve the performance of key features by around 80%.
  - **Food-Supplies Management (Python, Sklearn, Keras):** A stock management tool to help the pantry of the office plan the supply of fruits, vegetables, and grocery in order to minimize wastage of food.
  - **Danglay (Ruby, Ruby on Rails):** A scalable carpooling web application using Ruby on Rails to solve the problem of commute faced by numerous employees at ThoughtWorks.
- **Freelancer** (Embedded System Prototyping) - **Self Employed**, Bangalore, India 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

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- **Object 3D Pose Estimation (Python, Tensorflow, C#, Unity):** Using a CNN to predict an object's 3D pose (x, y, z, roll, pitch, yaw) to generate real and virtual object interactions in a Hololens. **Links:** *Demo, Paper, GitHub.*
- **Agile board (Java, SpringMVC):** A web based Agile board developed for an OOP-design cum refactoring exercise. Devised a *custom design pattern* as part of the project implementation. **Links:** *App, GitHub.*
- **Navisys (Java, Android, Python, C++, OpenCV):** An embedded system fitted into a jacket that provided turn-by-turn navigation with human and obstacle detection to visually impaired users. **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

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- '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 *newspaper(link)* for its novel approach of implementation.