

AKHIL RAO

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SKILLS

Programming Languages: C, C++, Java, Python, MATLAB

Web Development: HTML, CSS, JavaScript, Django, Twitter Bootstrap, BottlePy, Spring MVC, jQuery

Platforms: Windows, Linux, Android, AVR, Beagleboard XM

Tools: OpenCV, Java Swing, Eclipse, Netbeans, Git, LaTeX, SciPy, Scikit-Learn, Numpy, NLTK etc.

EDUCATION

- **Masters in Computer Science | NC State University | August 2015 – May 2017 | GPA 4.0/4**
Coursework: Design and Analysis of Algorithms, Artificial Intelligence I, Automated Learning and Data Analysis
- **Bachelor of Technology (Electronics Engineering) | VJTI, Mumbai | July 2009 – June 2013 | GPA 8.7/10**

EXPERIENCE

- **Software Engineer I | Cisco Systems | August 2013 – July 2015**
 - Designed and developed an end-to-end solution test validation framework in Python for testing Cisco Unified Contact Center Express and Enterprise solutions.
 - Designed and developed a Web based interface using Django and Bootstrap with SQLite as backend for generating, executing and presenting reports for the above mentioned framework.
 - Part of a team developing a management dashboard tool using Spring MVC and Bootstrap.
 - Trainings include Interconnecting Cisco Network Devices I and II, Advanced Linux Debugging
- **Student Developer | Google Summer of Code | Google | May 2012 – August 2012**
 - Student Developer for KomodoOpenLab : an assistive technology company
 - Designed and developed a cross-platform desktop client in Java Swing that would enable wheel-chair bound users to use Tecla Shield – an assistive switch to use computers over Bluetooth.
 - Complete Proposal : goo.gl/4dfNGW
- **Android Developer | May 2011 onwards**
 - Developed two applications available on Google Play Store with learning Android Application Development in mind.
 - **Vocopedia:** Vocabulary helper app for GRE/SAT test takers with hangman, 15000+ downloads
 - **SocialWebbie:** Twitter and Facebook Integrated into one app

PROJECTS

- **Mining Quality Parameters from Yelp Reviews for Improving Businesses**
 - Using NLP, K-means Clustering and Wordnet, mine parameters that reviewers talk about in their reviews from a corpus of Yelp review text that will aid businesses to plan their business strategies.
 - Implementation in Python using NLTK, Pandas, Scikit-Learn, Wordnet and SciPy.
 - Full Report: <https://goo.gl/tdiX4t>
 - Dataset provided by Yelp as part of Yelp Dataset Challenge.
- **FreeStyle**
 - An Application of Image Processing, Gesture and Color Detection that generates Computer Events and provides a virtual canvas like interface using a live webcam stream.
 - Optical Character Recognition and Augmented Reality was also a part of this project.
 - Beagleboard XM was used to prototype an embedded version of freestyle.
 - Won awards in technical festivals.
- **TYSM**
 - Python script to automatically thank everyone who wished you on your birthday on Facebook.