

Manav Kedia

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Education

University of Illinois at Urbana-Champaign

MS IN COMPUTER SCIENCE

GPA: **4/4**

Urbana, Illinois

Aug 2016 - Present

Indian Institute of Technology Kharagpur

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

CGPA: **9.35/10**

Kharagpur, India

Jul 2012 - April 2016

Experience

CodeNation Solutions

SOFTWARE ENGINEERING INTERN | STATIC CODE ANALYSIS

- Identified false positives in several good practices of coding in Java and implemented the rules in static code analyzer framework.
- The implementation filtered out around 50% errors and warnings as false positives.
- Built a chrome extension to receive user feedback and update the database
- Built an API for JavaParser to visit different elements of the AST
- Received a full-time job offer as a Software Engineer

Bangalore, India

May 2016 - Jul 2016

Adobe Research, BigData Experience Labs

RESEARCH INTERN | UNDERSTANDING MEMORABILITY OF VIDEOS

- Carried out feature extraction with state-of-the-art image and video processing techniques and deep learning for enhancing memorability of user videos
- Designed an MTurk survey to collect the ground truth using a MEAN stack web app
- Built an Android app to get exemplify the utility of the idea
- A patent filed in the US
- Received a full-time job offer as a Software Engineer

Bangalore, India

May 2015 - Jul 2015

ETH Zurich

SOFTWARE ENGINEERING INTERN | EIFFEL WEB COMPILER

- Implemented a web server using Eiffel Web Framework. The web server provided the functionalities of the Eiffel Compiler through RESTful HTTP API
- Designed the frontend in AngularJS, HTML and CSS

Zurich, Switzerland

May 2014 - Jul 2014

Publications

CONFERENCE PAPERS

Aziz, Russel, **Manav Kedia**, Soham Dan, Sudeshna Sarkar, Sudeshna Mitra, and Pabitra Mitra. "Segmenting highway network based on speed profiles." In Intelligent Transportation Systems (ITSC), 2015 IEEE 18th International Conference on, pp. 2927-2932. IEEE, 2015.

Aziz, Russel, **Manav Kedia**, Soham Dan, Sayantan Basu, Sudeshna Sarkar, Sudeshna Mitra, and Pabitra Mitra. "Identifying and Characterizing Truck Stops from GPS Data." In Industrial Conference on Data Mining, pp. 168-182. Springer International Publishing, 2016.

Hackathons & Competitions

- 2017 **Hackillinois, UIUC**, Winner of Google's Everyday Usefulness category, a web safety app: [Link](#)
- 2017 **Illinois Programming League, UIUC**, Currently ranked 3rd
- 2016 **ACM ICPC North American Mid-Western regionals**, Ranked 13th
- 2016 **Goldman Sachs Quantify**, Campus Winner and Finalist
- 2015 **IBM Hackathon, IIT Kharagpur**, 3rd, Get doctor appointments and recommendations
- 2015 **ACM ICPC India-Amritapuri regionals**, Qualified
- 2014 **Datawind Hackathon, IIT Kharagpur**, Winner, Multiplayer card game in Android
- 2012 **IITJEE**, All India Rank 2004 (99.99 percentile), among half a million candidates

Key Projects

Design Bot

HUMAN COMPUTER INTERACTION

Jan 2016 - Present

- Designing an artificial intelligence backed bot and understanding the kinds of feedback queries posted by users

Topic Discovery and Recommendation in Pinterest

GUIDED BY: PROF. PABITRA MITRA | BACHELOR'S THESIS PROJECT

Sept 2015 - Apr 2016

- Used pre-trained AlexNet model to classify the different objects in images into 1000 categories and expanded the image feature vector using Wordnet to generate recommendations

Analyzing the behavior of alcoholics on Twitter

GUIDED BY: PROF. ANIMESH MUKHERJEE AND PROF. PAWAN GOYAL | SOCIAL COMPUTING | TEAM LEADER

Sept 2015 - Dec 2015

- Analyze the relevance of health, food, money and swear words obtained from the tweets of a seed of alcoholic users and how they compare with non-alcoholic users to classify them

Evolution in answering style of users on Quora

GUIDED BY: PROF. PAWAN GOYAL | NATURAL LANGUAGE PROCESSING

Jul 2015 - Nov 2015

- Computed a set of distinct writing features like humor, satire, use of abusive language, readability, informality in the answer.
- Built a model to predict the writing behavior. Amongst the **top 3 winning teams** for the best project felicitated by Flipkart.

Masters/PhD Made Easy Application

- A MEAN Stack app which helps users organize their Masters/PhD Applications, track of all their requirements and todos. Live at <http://apping-trak.rhcloud.com>

Internet Of Things based iOS app

- An iOS app that tracks a BLE device to keep track of users belongings

Technical Skills

Proficient: C • C++ • Python • SQL • AngularJS • Chrome Extension • HTML • Git
Comfortable: Java • CSS • Express • MongoDB • ~~TeX~~ • Android • iOS • Scrum • Unity
Familiar: NodeJS • JQuery • PHP

Positions of Responsibility

2017 **Teaching Assistant**, Intro to Computer Science - CS125 at UIUC

2016 **Teaching Assistant**, Artificial Intelligence - CS440 at UIUC

Relevant Courses

GRADUATE COURSES

Data Driven Design	Virtual Reality	Machine Learning	Human Computer Interaction
Data Mining	Distributed Systems	Intro to Competitive Programming	

UNDERGRADUATE COURSES

Internet Architecture	Database Management System ^L	Artificial Intelligence	Machine Learning
Distributed Systems	Algorithms I ^L	Algorithms II	Computer Networks ^L
Operating Systems ^L	Software Engineering ^L	Information Retrieval	Compilers ^L

^L: The course had a lab component

*: Ongoing course

Extra Curricular Activities

2016 **Official reviewer**, of the book "Android Programming with OpenCV3 by Joseph Howse for Packt Publishing

2012-14 **National Service Scheme**, taught english and maths to Underprivileged children

2013-14 **Debating Competitions**, participated in several national debates in India

2014 **Intern Panel at IIT Kharagpur**, mentored sophomores to secure internships