

## Education

- **Indian Institute of Technology, Madras** Chennai, India  
BTech. in Computer Science and Engineering Aug. 2011 – July 2015
  - Major: **Computer Science and Engineering**; Minor: **Social Innovation and Entrepreneurship**
  - Key Courses: Algorithms and Data Structure, Advanced Algorithms, Databases, Software Engineering, Compiler theory, Paradigms of Programming Languages, Computer Networks, Artificial Intelligence, Natural Language Processing

## Experience

- **Software Engineer** Mumbai, India  
BrowserStack July 2015 – March 2018
  - Worked on developing several desktop platform related features for the *Automate* product and achieving stability of almost *99.95%* over almost *4,00,000 sessions per day*.
  - Worked on improving the efficiency and stability of an internal Central Logging Service.
  - Worked on reducing the time for a user to click and showing the browser on a remote phone for the *Live* product to improve user experience. After this project, browsers on android phones take 8 seconds and on iOS phones take 12 seconds on an average, for the session to start.
  - Was responsible for shipping initial beta version of *automated web and native app testing* on mobile phones running iOS and Android operating systems.
  - Was responsible for shipping initial beta version of *manual native app testing* for mobile phones running iOS and Android operating systems.
  - Took active part in code reviews and also part of the interview process at BrowserStack.
- **Software Development Intern** Mumbai, India  
Reliance Jio Infocomm Limited May 2014 – August 2014
  - Worked on developing Hadoop as a Service product using the existing cloud infrastructure.
- **Software Development Intern** Chennai, India  
Owlink May 2013 – August 2013
  - Worked on building a chrome extension that would let you share bookmarks among your team with features like search, import from other bookmarks, annotate bookmarks and post comments about bookmarked pages.

## Academic Projects

- **Lexical Parser for Indian Languages**  
B.Tech Thesis
  - The problem statement was to build a lexical parser for Indian languages, that when given a word in a given Indian language, it would output the pronunciation of that word in that particular language in English.
  - Developed a One Look ahead parser for two Indian languages, *Hindi* and *Telugu*. The software achieved a success rate of *95%* in *Hindi* and *97%* in *Telugu*
  - The whole software was built in C, using *YACC* and *Bison*
- **Abhiyan**  
Unmanned Autonomous Vehicle
  - This project was part of Centre For Innovation Club at IIT Madras. The problem statement was to build a autonomous vehicle, that would start from point A and reach point B, while following the lanes and avoiding obstacles.
  - I was part of the Computer vision team, and later moved to the Networks team.
  - As part of the Computer vision team, I was responsible in building the software that detect the lanes on the road. The UAV was supposed to follow the lanes and never cross them. I also helped in writing the obstacle detection software.
  - As part of the Network team, I was responsible in building the software that would send commands to the UAV over a new protocol called *JAUS*.

## Patents

- **Device and method for quantifying blood hemoglobin content** India  
4976/CHE/2014 January 2015
  - Filed a patent for an invasive low cost solution for extracting the hemoglobin percentage of a human body, which would be helpful in improving the medical care provided in remote villages.

## Achievements and Awards

- Part of the team which was one of the five finalists for IMC Inclusive Innovation Awards, 2014.
- Winner of *AutoMania* event which was conducted at Shaastra 2014 which is technical fest of IIT Madras.

## Skills

- **Languages:** Proficient in Ruby, Python, JavaScript, Bash. Also worked on C++, Java, Swift.
- **Operating Systems:** Proficient in Windows and Linux environments.
- I also have experience on using technologies like Ruby on Rails, NodeJS, Redis, MySQL, MongoDB.
- Basic knowledge of building Android and iOS apps.