

# Aviral Gupta

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## EDUCATION

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- **Columbia University** New York, NY  
*Master of Science in Computer Science* Sep 2018 – Dec 2019
  - **Courses:** Software Engineering, Cloud Computing, Analysis of Algorithms, Security
  - **Course Assistant:** Programming Languages (JavaScript), Fall 2018
- **Guru Gobind Singh Indraprastha University** New Delhi, IN  
*Bachelor of Technology in Information Technology; GPA: 3.8/4.0; Institute Rank: 1* Aug 2013 – May 2017

## TECHNICAL SKILLS

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- **Languages:** JavaScript (ES5 & ES6), Python, HTML, CSS, C/C++, Java
- **Web/Frameworks/Others:** React.js, React Native, AWS, Bootstrap, SQL, jQuery, Django, Node.js

## EXPERIENCE

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- **All India Council for Technical Education (AICTE), Govt. of India** New Delhi, IN  
*Research and Development Intern* Oct 2017 - Mar 2018
  - Implemented the winning project at Smart India Hackathon 2017, *Prediction of Admission & Jobs in Engineering & Technology/Management/Pharmacy* under Dr. N.H. Siddalingaswamy (Director, AICTE)
  - Analyzed Indian institutes' datasets and employment statistics using Python to find correlation between them
  - Researched and compared different accreditation mechanisms with the pre-existing AICTE approval handbook
  - Developed dynamic web-based analytical dashboards using Bootstrap, plot.ly and Django to aid AICTE in granting course approvals to higher educational institutions and prediction of jobs
- **Snapdeal** Gurgaon, IN  
*Software Engineering Intern* Jun 2016 - Aug 2016
  - Achieved 7% improvement (100ms) in Time To First Byte of e-commerce website's page load performance by minimizing HTTP requests, optimizing delivery of static resources and early flushing of data
  - Integrated Olark Chat, a third-party chat application, for first time users along with activity tracking to report on all the user's properties across the website user flow using JS and AJAX
  - Researched and presented the idea for *Lite Website* with effective user bandwidth detection
  - Wrote Python scripts to organize resources and optimize build times

## PROJECTS

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- **Mobile Flashcards: An iOS Quiz Application using React Native** Dec 2017 - Jan 2018
  - This app allows users to study and create a collection of different categories of flashcards called "decks", add flashcards, and then take quizzes on those decks
  - Leveraged React Native to manage infinite lists, routing and user input
- **Readable: A Web Application using React JS and Redux** Nov 2017 - Dec 2017
  - Built a social content and discussion web application that allows users to submit content, vote and comment
  - Leveraged React to build a dynamic user interface, as well as Redux to manage global application state
- **Machine Learning Prediction Engine API** Feb 2017 - Apr 2017
  - An interactive web application was built on top of a Django based RESTFUL API which can get remote predictions from a machine learning model integrated at the backend
- **Freeword: A Web Application using Django, JS and Bootstrap** Oct 2016 - Jan 2017
  - Built a question-answer web application similar to Quora as a platform where users could express their opinions freely and anonymously

## AWARDS/HONORS

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- **Winner, Smart India Hackathon 2017**, where over 7200+ teams pan India competed in a 36-hour Hackathon organized by the Govt. of India
- **Honorable Mention at ACM-ICPC** (Association for Computing Machinery – International Collegiate Programming Contest) National Regionals 2015, Kolkata after qualifying amongst the top 60 institutes of India