

# Aayush Dhir

Microsoft  
Software Development Engineer 2

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## ACADEMIC DETAILS

Year	Degree/Certificate	Institute	CPI/%
2017	B.Tech, Computer Science & Engineering	IIT Kanpur	9.7/10.0
2013	Class XII CBSE Board	Apeejay School, Jalandhar	96.2%
2011	Class X CBSE Board	Apeejay School, Jalandhar	10.0/10.0

## EXPERIENCE

- **Microsoft, Hyderabad - Software Development Engineer** (June 2017- Present)
  - Currently working on a tented project in the PDF area
  - Designed and implemented printing support on Edge on Windows 10X devices
  - Created print preview dialog for Edge using ReactJS
  - Owned the Print feature end to end in Edge for about a year and improved print reliability from 97.6% to 99.8%
  - Made PDF experience seamless by adding keyboard accessibility, enterprise policies and toolbar in Edge browser
  - Added multiple useful features in print dialog for previous Edge versions
- **Microsoft, Hyderabad - Software Development Intern** (May 2016- July 2016)
  - Built a generic tool for extension's API type check automation using Web Driver
  - Created an Input validator for the validation of input JSON file having the API signature
  - Generated the test matrix containing positive and negative test cases for the API
  - Built a Code Generator which generates all the Web Driver DRT and outputs the browser extension
- **11techsquare, Jaipur - Software Development Intern** (May 2015- July 2015)
  - Transformed raw OMR technology into a more user friendly and commercially distributable product
  - Created a responsive UI and multi-tasking using multi-threaded programming
  - Improved user experience of creating new OMR sheet templates

## PROJECTS

- **Compiler for Ruby to MIPS (as a part of Compiler Design course)** (January - April 2016)
  - **Objective** : An end-to-end cross compiler for Ruby in the MIPS architecture using PLY(Python-Lex-Yacc) package
  - Built a compiler for a tweaked version of Ruby that supports functions and function calls, arrays, nested if-else statements, loops, break statement, dynamic memory allocation and static type checking
- **Object Recognition in Traffic Surveillance Videos (as a part of Machine Learning course)** (January - April 2016)
  - **Objective** : Identification and classification of objects in surveillance videos in real time
  - Extracted SIFT and HOG features from the training data set to train the classification models
  - Identified the objects using background subtraction technique
  - Classified the objects and cross-validated the accuracies obtained from various classification models
- **Ebuy- An E-commerce web application (as a part of Principles of Database Systems course)** (January - April 2016)
  - **Objective** : A web-based E-commerce application on LAMP framework which supports trading of products
  - Designed the database architecture for the web application which supports two classes of users- sellers and buyers
  - Implemented the search functionality which included refining of the results on the basis of brands
- **Extended NachOS (as a part of Operating System course)** (August - November 2015)
  - Extended the system call library by implementing handlers for Fork, Exec, Join, Yield, Sleep and Exit
  - Provided support for process scheduling according to UNIX, non-preemptive FIFO, Round Robin and shortest next CPU burst first algorithms
  - Implemented Shared Memory, Semaphores, Condition variables and Demand Paging

## SCHOLASTIC ACHIEVEMENTS

- Awarded **Academic Excellence Award, 2013-14, 2014-15** in IIT Kanpur, given to the top 7% of the batch
- Secured **All India Rank 885** in JEE Advance 2013 among 1.5 lakh students
- Secured **All India Rank 280** in JEE Mains-2013 among 1.4 million students

## TECHNICAL SKILLS

- C, C++, Javascript, ReactJS, Polymer, HTML, CSS