



# Charchit Gupta

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Worked on high TPS, low latency systems including Amazon Detail Pages and Device Management Service that are backed by gigantic databases having billions of products and millions of customers. Experience in developing full stack web application with responsive mobile first UX. Artist by nature, developer by heart... I like to build things.

## PROFESSIONAL EXPERIENCE

### Software Development Engineer

#### Amazon Business

Jul'2016 – Current

Parts & Accessories Widget

Rendered for Amazon Business (AB) customers on B2B specific Detail Pages to display parts/accessories of a master product.

- Developed end to end search functionality into the widget to search among accessory product with an upper bound p90 latency of 200ms.
- Designed and developed batch request API to fetch paginated list of accessory products and winning offer.
- Developed the front-end UI as per provided mocks and integrated with the API.
- Single point of contact for feature launch across 16 product categories from technical point of view.

AB Detail Pages

B2B specific Detail Pages, renders different layout to AB customers compared to normal retail customer for same page URI.

- Suggested and prototyped required changes in the platform code to override existing layout of Amazon Detail Pages based on customer type.
- Implemented scalable solution and launched B2B specific Detail Page layouts for a single category of products in amazon.com.
- Single point of contact for launch of B2B specific Detail Pages in 17 product categories and 5 other locales that includes: amazon.co.uk, amazon.de, amazon.it, amazon.co.jp and amazon.es.

Variation Tables

Lists available variations of a Business, Industrial or Scientific product with variety of specifications.

- Optimized the data cache improving the quality of stored data to render Variation Tables widget on Amazon Detail Pages in amazon.com
- Created a job to periodically remove unused and stale data, which cleared over 90% of unwanted data from cache on its first run, amounting to ~633 million records, saving monthly billing of more than \$14000 as expensive cache storage.

### Application Engineer

#### Amazon Devices

Nov'15 – Jun'16

Kindle Analyzer

- Built functionality to fetch device logs from archive based on Device/Customer Id and analyze core temperature trends for past 6 months to detect any heating issues.

### System Engineer

#### TATA Consultancy / Microsoft

Aug'14 – Oct'15

Microsoft's Managed Accounts List

- Implemented multithreaded search for querying multiple servers at once. This enabled the search operation that took ~60-70 seconds to be completed in < 15seconds.
- Developed MAL Discrepancy Analyzer: A tool that compares data from 3 different systems consisting of multiple servers, for given account IDs and shows discrepancies in any of the data fields and generate Excel report for the same. Saving hours of manual efforts of support engineers.

### Software Developer

#### Freelancer

Mar'14 – Jun'14

Crime Analysis

- Developed and deployed web application to categorize FIR of various crimes lodged all over the province to generate reports, graphs and statistical data. This project was used by Madhya Pradesh Police Department for 2 years. ~600 thousand FIRs were lodged during this time.

## SKILLS

OOP, Data Structures, Algorithms, C++, PHP, Java, HTML5, CSS3, JavaScript, JQuery, AngularJS, NodeJS

## EDUCATION

**Rajiv Gandhi Technical University** **2010 – 14**  
B.E. (Computer Science) – 6.3 CGPA

**Central Board of Secondary Education** **2009 – 10**  
12th (Sr. Secondary) – 70%

**Central Board of Secondary Education** **2007 – 08**  
10th (Secondary) – 75%