

## Contact

[megha.gupta2205@gmail.com](mailto:megha.gupta2205@gmail.com)

[www.linkedin.com/in/megha-gupta-93477b47](https://www.linkedin.com/in/megha-gupta-93477b47) (LinkedIn)

## Top Skills

Front-End Development

Software Development

React.js

## Certifications

Software as a Service

## Honors-Awards

Graduate Assistant tuition supplement

Graduate student fellowship Secretary

## Publications

Differential Serving

# Megha Gupta

Software Engineer at Walmart Labs  
San Francisco Bay Area

## Summary

Trying to build a better world.

## Experience

Walmart Labs

Software Engineer

March 2019 - Present (6 years 4 months)

Sunnyvale, California

Rebuilt Walmart.com from scratch as part of the Glass project using React, TypeScript, and Orchestration Layer (OL) APIs to deliver a scalable and performant frontend.

Designed OL integrations to optimize API data handling, reducing latency and boosting system reliability.

Led enhancements in Cart and Checkout flows, ensuring high availability and performance during major retail events (e.g., Black Friday).

Drove CI/CD pipeline optimization, reducing CI time by 70% with dependency graphing and streamlined build processes.

Improved frontend performance (TTI, FCP, LCP) through code splitting, lazy loading, and instrumentation.

Collaborated cross-functionally with product, design, and architecture teams to deliver intuitive, accessible UI/UX.

Wrote clean, testable code and functional tests using Cypress, maintained code quality, and resolved production issues efficiently.

Tech Stack & Skills: React.js, Next.js, TypeScript, JavaScript, Node.js, Express.js, GraphQL, Redux, RxJS, Cypress, Azure, GCP, Micro-frontend & Microservice Architecture, Agile, CI/CD, Jenkins, Git, Selenium, JIRA

## Alaska Airlines

### Software Engineer

May 2017 - February 2019 (1 year 10 months)

Burlingame CA

Integration Process: Key role in the integration from Virgin America to Alaska Airlines.

Managed codeshare, shopping, check-in, credit card, and loyalty programs.

RouteMap Project: Designed and developed an interactive flight route map using JavaScript, HTML, CSS, and .Net.

Created CI/CD pipeline on Azure for Dev, QA, and Prod servers.

RouteMap Project

Team Leadership: Led a team of 4 as Scrum Master and Developer.

Coordinated with offshore and onsite teams, Business Analytics, and Product Managers.

Azure POC: Migrated and deployed the site on multiple Dev and QA Azure servers.

Technical Skills: Proficient in AngularJS, ReactJS, JavaScript, HTML, CSS3, SASS, and Git.

OBN Migration: Developed web services for Sabre queue monitoring and alert notifications.

Deployed to Azure and created Azure functions for Sabre gateways.

Mobile Web Application: Worked on check-in component and redesigned reservation page for Alaskaair.com.

## Virgin America

### Software Engineer

February 2016 - April 2017 (1 year 3 months)

Burlingame, California

Technical Leadership: Provided leadership to engineers, designers, business analysts, and stakeholders in developing and maintaining dynamic client-side web applications.

Mentorship: Mentored engineers and reviewed code and designs in a senior capacity.

Prototyping and Development: Prototyped and developed new ideas; participated from research to release.

Industry Trends: Stayed updated with front-end technologies and techniques.

Collaboration: Worked with UX and Graphic Designers to convert wireframes and visual designs into HTML/CSS prototypes.

Optimization: Developed and optimized front-end UI for consistent cross-browser rendering.

Front-End Coding: Created front-end code templates using XHTML/HTML5, CSS, JavaScript, AJAX, JSON/XML, and frameworks like jQuery, AngularJS, NodeJS, GruntJS, and RequireJS.

## Eaton

AngularJS developer

December 2015 - February 2016 (3 months)

Peachtree city

Application Development: Built responsive hybrid WCL application using Ionic and AngularJS, compatible with mobile devices and various web platforms.

Plugins and Modules: Integrated Cordova plugins, Angular modules, and providers.

State Management: Managed URLs and states using UI-router and state provider.

Collaboration: Worked with Product Manager to create mockups using Balsamiq; collaborated on API and JSON architecture documentation.

AngularJS Modules: Developed custom, reusable, and testable AngularJS modules and components, ensuring a clear dependency chain.

CSS and JS Expertise: Applied CSS and JS methods for efficient visual effects.

View-Model and Controllers: Created view-models and controllers, using demo JSON data and services.

Code Abstraction: Implemented 3-level data abstraction for clean and maintainable code.

Custom Directives: Created custom Angular directives and templates.

CI Environment: Developed configuration, build, and test scripts for Continuous Integration environments using Gulp.

Compatibility Testing: Ensured cross-browser and mobile device compatibility through extensive testing.

## Ooyala

Angular JS developer

February 2015 - December 2015 (11 months)

## Santa Clara CA

UI Development: Developed and designed AngularJS-based UI interfaces.

Team Leadership: Led a team of 7 people in an onsite/offshore model.

Application Monitoring: Monitored applications, triaged tickets, and initiated on-call responses for P0 and P1 issues.

Issue Resolution: Resolved production issues, monitored and resolved error reports, responded to user inquiries, and analyzed root causes of high-severity issues.

Bug Management: Created bugs for long-term fixes and fixed configuration bugs.

Agile Methodology: Followed Agile methodology maintained over JIRA, involved in sprint planning.

Single Page Application: Built Single Page Application (SOA) using AngularJS.

Data Access: Leveraged Angular resources for all data access, encapsulating URLs, and standardizing data access interfaces.

## LoudDoor LLC

Software Engineer

May 2014 - December 2014 (8 months)

UI Development: Developed a visually appealing user interface according to specified requirements.

AJAX Integration: Integrated the user interface with AJAX to dynamically query the database at the back end.

MVC Design Pattern: Effectively separated presentation and controller aspects using the MVC design pattern.

PHP Laravel: Utilized PHP Laravel MVC design for the application, catering to marketing and retail needs.

Client Interaction: Handled client-facing work, understood requirements, documented them, and designed appropriate solutions.

User Story Management: Estimated user stories and prioritized them to ensure efficient project management and delivery.

Technologies Used: AngularJS, AJAX, PHP Laravel, MVC design pattern.

## University of South Carolina

1 year 10 months

Assistant Web Developer

January 2014 - May 2014 (5 months)

Developing and Maintaining university website of CTE department at USC.

Worked on front end pages that were developed in a professional manner using HTML, CSS, JavaScript, and JQUERY.

Developed and implemented user interfaces as per latest W3C standards.  
Developed client side validation code using JavaScript and JQUERY.  
Involved in fixing Front-End issues with the layouts.  
Developed cross-browser pages using CSS, HTML, DHTML, and JavaScript

Design and Development of queries/ stored procedures and triggers that are used by the java components to retrieve data from database.  
Troubleshooting any issues that arise during the development stage.

#### Graduate Teaching Assistant

August 2012 - May 2014 (1 year 10 months)

Taught HTML5, CSS3, JavaScript ,AppInventor ,CH to three labs of 25 students

Taught Labs for Database System Design class of 45 undergraduate and graduate students.

Taught Algorithm and data structures using java lab 30 students

#### Graduate Assistant

August 2012 - May 2013 (10 months)

Responsible for Handling Labs of HTML5 ,CSS3,Java Script of 60 undergraduate students

#### Information Technology Assistant

August 2012 - February 2013 (7 months)

- Maintaining & Updating Computer Labs
- Computer Assembling And Maintenance, Hardware Diagnostic and Troubleshooting Software Problems, Installing And Configuring The Peripherals, Components And Drivers ,Installing Software And Application To User Standards

#### EDENS : Connective Retail

Technology and Marketing Intern

September 2013 - January 2014 (5 months)

Worked in team of 4 people, for UI/UX design.

Manage team of front and back-end web developers and designers to meet project deadlines

Developed Servlets and custom tags for JSP pages.

Followed best design patterns, practices & guidelines.

Meet with clients to determine website goals and develop strategies for creating a strong web presence.

Dealing with clients for understand the requirements and design templates accordingly using various design tools.

Work closely with Marketing manager and Developer Lead for proposal support - Work with pre-sales and solution teams and support in solutioning, estimations, etc.

Optimized the website and adjust the interface to be user-friendly and more efficient.

Designed and implemented UI components using Struts view components, JSP, JavaScript, HTML and CSS.

Also used Wordpress, Joomla for different website maintenance

## Shodor Education Foundation, Inc.

### Software Developer

April 2013 - August 2013 (5 months)

Designed and implemented Java based 146 “Interactivate activities” <http://www.shodor.org/interactivate/> designed to enhance computational learning for research and educational purpose.

Converted all desktop based applications to JavaScript, to make it available for mobile platforms to enhance company market reach and product availability.

Developed Server side code using Servlets, JSPs running on Apache tomcat 3.0 and Enterprise Beans running on WebSphere Application Server

Developed UI and Application using JQuery, AngularJS, AJAX, and JSON used frameworks like HTML kick start and bootstrap, Backbonejs and RESTful web services.

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## Education

### University of South Carolina-Columbia

Master of Science (MS), Computer Science · (2012 - 2014)

### Institute of Engineering and Technology, DAVV, Indore

Bachelor of Engineering (B.E.), Electronics & Telecommunication · (2008 - 2012)