

# ASHISH AGARWAL

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## EDUCATION

<b>M.S., Computer Science</b>   San Jose State University   San Jose, US	<b>Aug 2022 – May 2024</b>
CGPA: 4.0/4.0 Relevant Coursework: Design and Analysis of Algorithms, Distributed Computing, Cloud Computing, Machine Learning	
<b>B.E., Computer Science &amp; Engineering</b>   Dayananda Sagar College of Engineering (DSCE)   Bangalore, India	<b>Aug 2014 – Jun 2018</b>
CGPA: 8.12/10.0 Relevant Coursework: Design and Analysis of Algorithms, Graph Theory and Combinatorics, Operating Systems, Computer Networks, Compiler Design, Java & J2EE, C# Programming & .Net, Data Structures with C	

## TECHNICAL SKILLS

**Programming** – Java, Scala, C, C++  
**Website Development** – HTML, CSS, Javascript/Typescript, jQuery, NodeJS, ReactJS  
**Database** – MySQL, MongoDB  
**Others** – Spring Boot, Kafka, Elastic search, Play Framework, Android Application Development, Machine Learning, Git

## RELATED EXPERIENCE

<b>Software Engineer</b>   Zomentum   Bangalore, India	<b>Sep 2021 – May 2022</b>
<ul style="list-style-type: none"><li>Designed and improved Web APIs using play web framework with scala and helped application expose REST APIs.</li><li>Delivered and owned features for autotask integrations system for Zomentum, by leveraging scheduled jobs and event-driven architectural system, benefiting customers sync data to and from Autotask.</li><li>Leveraged Web Sockets to get latest purchase orders tracking updates to set up scheduled jobs in AWS lambda using events generated in AWS Kinesis. This helped customers track purchase orders.</li><li>Analyzed and resolved customer bugs. Over a span of 4 months, weekly customer bugs were drastically reduced and technical team received positive reviews from customers.</li></ul>	
<b>Software Engineer</b> (Promoted from Analyst to Associate)   JP Morgan Chase and Co.   Bangalore, India	<b>Jul 2018 – Sep 2021</b>
<ul style="list-style-type: none"><li>Developed and maintained elastic search server to fulfil full indexing jobs, delta indexing jobs and retrieval queries. Search result time dropped from 11 seconds to 1 second.</li><li>Created REST Web APIs using Java with Spring Boot and GraphQL to expose banker specific and related contact information consumed by user-facing systems.</li><li>Owned and delivered a kafka application to consume data from third-party kafka channel and write to multiple other channels, all as kafka as a messaging platform. Teams benefitted by retrieving employee and customer data near real-time.</li><li>Initiated and worked towards migration of a react application from flux to redux for better application state management and built a complete front-end application from scratch using necessary tools and packages.</li><li>Leveraged test-driven developmental approach for applications using Mockito and Jest, thereby facilitating cleaner application code and better standards.</li><li>Took initiatives on architectural design suggestions. These suggestions helped team cope up with fast-paced development environment after being acknowledged by architect team.</li><li>Led production releases of at least 12 applications, followed agile methodology to facilitate continuous delivery and integration.</li></ul>	

## PROJECTS

<b>Kalpayita: A Machine Learning Approach to Interior Designing</b>   DSCE   <a href="https://youtu.be/r8xzs9WOgz0">youtu.be/r8xzs9WOgz0</a>	<b>2018</b>
Publication: <a href="https://ijsrd.com/Article.php?manuscript=IJSRDV6I30847">ijsrd.com/Article.php?manuscript=IJSRDV6I30847</a> A voice driven tool to convert voice or text to a relevant 3D scene.	
<ul style="list-style-type: none"><li>Developed Scene Parsing (used StanfordCoreNLP to extract parts of text) and Scene Generation (conversion of scene graph to tree) stages by referring research papers and utilizing jMonkey framework to build a model for generating a 3D scene in less than a second.</li></ul>	
<b>Sign Language Gesture Recognition</b>   DSCE   <a href="https://youtu.be/qSdMSDVd2Zw">youtu.be/qSdMSDVd2Zw</a>	<b>2018</b>
A PC application for recognizing hand gestures through a live video.	
<ul style="list-style-type: none"><li>Implemented end-to-end model training from data feed to training and application testing, along with entire UI resulting in a seamless application to predict sign language and train model with new hand gestures.</li></ul>	
<b>Easy Cash</b>   DCB Bank   <a href="https://youtu.be/Nwr_vF2uL4M">youtu.be/Nwr_vF2uL4M</a>	<b>2017</b>
Application to make online UPI payment simple by providing an interactive payment system, and allowing addition of multiple UPI accounts.	
<ul style="list-style-type: none"><li>Created notification management, transaction processing and user profile management modules to handle payments and let users manage user settings and information.</li></ul>	

## ACTIVITIES

Awarded for final year undergraduate project   Best Project Award   DSCE   Bangalore, India	<b>2018</b>
Won Fintech Hackathon in Student's Category   1 <sup>st</sup> Prize   DCB Bank   Bangalore, India	<b>2017</b>
Volunteered and taught in a 2-day Android Workshop in Computer Science department   DSCE   Bangalore, India	<b>2017</b>
Coordinator of Microsoft Innovation Lab in Computer Science department during undergraduate   DSCE   Bangalore, India	<b>2016</b>
Participated and presented in a website-building hackathon   3 <sup>rd</sup> Prize   DSCE   Bangalore, India	<b>2016</b>
Won coding competition named Codewars   1 <sup>st</sup> Prize   DSCE   Bangalore, India	<b>2016</b>