

ASHISH AGARWAL

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EDUCATION

M.S., Computer Science San Jose State University San Jose, US	Aug 2022 – May 2024
<i>Relevant Coursework:</i> Design and Analysis of Algorithms, Distributed Computing, Cloud Computing, Machine Learning, Compiler Design	
B.E., Computer Science & Engineering Dayananda Sagar College of Engineering (DSCE) Bangalore, India	Aug 2014 – Jun 2018
<i>CGPA:</i> 8.12	
<i>Relevant Coursework:</i> 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

Software Engineer Zomentum Bangalore, India	Sep 2021 – May 2022
<ul style="list-style-type: none">Designed and improved Web APIs using play web framework with scala and helped application expose REST APIs.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.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.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.	
Software Engineer (Promoted from Analyst to Associate) JP Morgan Chase and Co. Bangalore, India	Jul 2018 – Sep 2021
<ul style="list-style-type: none">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.Created REST Web APIs using Java with Spring Boot and GraphQL to expose banker specific and related contact information consumed by user-facing systems.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.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.Leveraged test-driven developmental approach for applications using Mockito and Jest, thereby facilitating cleaner application code and better standards.Took initiatives on architectural design suggestions. These suggestions helped team cope up with fast-paced development environment after being acknowledged by architect team.Led production releases of at least 12 applications, followed agile methodology to facilitate continuous delivery and integration.	

PROJECTS

Kalpayita: A Machine Learning Approach to Interior Designing DSCE youtu.be/r8xzs9WOgz0	2018
Publication: ijsrd.com/Article.php?manuscript=IJSRDV6I30847 A voice driven tool to convert voice or text to a relevant 3D scene.	
<ul style="list-style-type: none">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.	
Sign Language Gesture Recognition DSCE youtu.be/qSdMSDVd2Zw	2018
A PC application for recognizing hand gestures through a live video.	
<ul style="list-style-type: none">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.	
Easy Cash DCB Bank youtu.be/Nwr_vF2uL4M	2017
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">Created notification management, transaction processing and user profile management modules to handle payments and let users manage user settings and information.	

ACTIVITIES

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

