ASHISH AGARWAL

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EDUCATION

M.S., Computer Science | San Jose State University | San Jose, US **Aug 2022 – May 2024**
Relevant Coursework: 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**
CGPA: 8.12
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

Software Engineer | Zomentum | | Bangalore, India **Sep 2021 – May 2022**

- 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**

- 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.

- 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.

- 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.

- 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 | 1st 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 | 3rd Prize | DSCE | Bangalore, India **2016**
- Won coding competition named Codewars | 1st Prize | DSCE | Bangalore, India **2016**