

# ASHISH AGARWAL

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## EDUCATION

<b>M.S., Computer Science</b>   San Jose State University   San Jose, US <i>Relevant Coursework:</i> Design and Analysis of Algorithms, Distributed Computing, Cloud Computing	<b>Aug 2022 – May 2024</b> GPA: 3.95/4.00
<b>B.E., Computer Science &amp; Engineering</b>   Dayananda Sagar College of Engineering   Bangalore, IN <i>Relevant Coursework:</i> Algorithms, Operating Systems, Computer Networks, Compiler Design	<b>Aug 2014 – Jun 2018</b>

## TECHNICAL SKILLS

**Programming** – Java, Javascript, Typescript, Scala, Python, NodeJS, ReactJS, HTML, CSS  
**Artificial Intelligence** – LLM with GPT models, Langchain, Predictive Modeling  
**Database** – MySQL, MongoDB, Oracle, Vector databases, BigQuery, Redis  
**Others** – Spring Boot, Kafka, Elastic search, Spark, Distributed Computing, Web Development, Android Development, Docker

## RELATED EXPERIENCE

<b>Software Engineering 2</b>   Paypal   San Jose, US <ul style="list-style-type: none"><li>Identified and corrected upstream-settlement schema discrepancies, reducing transaction failures and enhancing data accuracy.</li><li>Engineered a developer tool for searching Control-M jobs by parameters, cutting issue resolution time by 50% in batch-heavy projects and identifying outdated or undocumented jobs.</li><li>Devised a solution to automate vendor transaction responses, eliminating manual reconciliation, reducing accounting workload by 40%, and increasing operational efficiency.</li><li>Addressed 6 batch job failures and bugs, and contributed to resolving a major payment settlement incident impacting 10+ merchants.</li></ul>	<b>July 2024 – Present</b>
<b>Software Engineering Intern</b>   Paypal   San Jose, US <ul style="list-style-type: none"><li>Built a batch job with Apache Spark that ran on GCP DataProc cluster to pull profile over 25M daily screening data.</li><li>Leveraged HDFS and BigQuery to extract and display insights using GCP Looker, which reduced the amount of analyst effort.</li></ul>	<b>May 2023 – Aug 2023</b>
<b>Software Engineer</b>   Zomentum   Bangalore, IN <ul style="list-style-type: none"><li>Designed and improved Web APIs with Scala using Play framework, enabling efficient RESTful interactions.</li><li>Delivered and owned autotask integration features using scheduled jobs and event-driven architectural system, enabling seamless data sync for over 8000 customers.</li><li>Automated purchase order tracking with WebSockets and AWS Kinesis, using scheduled jobs for detailed order data, reducing manual checks by 50%.</li><li>Analyzed and resolved customer bugs, reducing weekly issues by 70% over 4 months and boosting customer satisfaction by 25%.</li></ul>	<b>Sep 2021 – May 2022</b>
<b>Software Engineer</b>   JP Morgan Chase and Co.   Bangalore, IN <ul style="list-style-type: none"><li>Developed and maintained Elasticsearch server for indexing jobs and retrieval queries. Search time dropped from 11 to 1 second.</li><li>Created REST Web APIs with Java, Spring Boot and GraphQL, exposing banker-specific and contact information to enable near real-time information retrieval, decreasing data lookup time by 70%.</li><li>Owned and delivered an end-to-end Kafka based platform, achieving near real-time employee and customer data retrieval.</li><li>Led the migration of a react application from flux to redux, improving state management and reducing application bugs by 40%.</li><li>Built and maintained over 4 frontend applications from scratch using ReactJS and Redux, leveraging essential tools and packages.</li><li>Initiated architectural design recommendations, which accelerated development by 30% and ensured rapid adaptation with fast-paced environment.</li><li>Led production releases of at least 12 applications, adhering to Agile methodology to facilitate continuous integration and delivery.</li></ul>	<b>Jul 2018 – Sep 2021</b>

## PROJECTS

<b>WeHeal</b>   <a href="https://github.com/AshishAgarwal2101/WeHeal">github.com/AshishAgarwal2101/WeHeal</a> <ul style="list-style-type: none"><li>An AI-powered companion for counsellors and therapists.</li><li>Developed end-to-end LLM agent with Langchain and vector database to summarize patient's case files and provide chat recommendations to counsellors, while managing context based on past interactions.</li></ul>	<b>Mar 2024</b>
<b>User Productivity Plugin</b>   <a href="https://github.com/AshishAgarwal2101/user-productivity-plugin">github.com/AshishAgarwal2101/user-productivity-plugin</a> <ul style="list-style-type: none"><li>A chrome plugin for user productivity by allowing users to set daily goals.</li><li>Utilized Javascript and Chrome APIs to create background scripts to monitor user time spent per website, along with the total time.</li></ul>	<b>May 2023</b>
<b>Distributed Hash Table</b>   <a href="https://github.com/AshishAgarwal2101/distributed-hash-table">github.com/AshishAgarwal2101/distributed-hash-table</a> <ul style="list-style-type: none"><li>A distributed hash table for key-value pair storage and retrieval.</li><li>Orchestrated node coordination through Remote Procedure Calls (RPCs) by minimizing lookup for key-value retrieval and facilitating addition of new key-value pairs with minimal overhead, utilizing the Chord protocol.</li></ul>	<b>Nov 2022</b>