#### **ASHISH AGARWAL**

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### **EDUCATION**

M.S., Computer Science | San Jose State University | San Jose, US

Relevant Coursework: Design and Analysis of Algorithms, Distributed Computing, Cloud Computing

Aug 2022 – May 2024

GPA: 3.95/4.00

**B.E., Computer Science & Engineering** | Dayananda Sagar College of Engineering | Bangalore, IN *Relevant Coursework*: Algorithms, Operating Systems, Computer Networks, Compiler Design

Aug 2014 - Jun 2018

### 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

PayPal | Software Engineer 2 | San Jose, US

Jul 2024 – Present

- Identified and corrected upstream-settlement schema discrepancies, reducing transaction failures and enhancing data accuracy.
- 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searching Control-M jobs by parameters, cutting issue resolution time by 50% in batch-heavy projects and identifying outdated or undocumented jobs.
- Devised a solution to automate vendor transaction responses, eliminating manual reconciliation, lowering accounting workload by 40%, and increasing operational efficiency.
- Addressed 6 batch job failures and bugs, and contributed to resolving a major payment settlement incident impacting 10+ merchants.

#### PayPal | Software Engineer Intern | San Jose, US

May 2023 - Aug 2023

- Built an Apache Spark batch job on GCP DataProc cluster to pull over 25M daily screening profile data.
- Leveraged HDFS and BigQuery to extract and display insights through GCP Looker, reducing analyst effort.

# Zomentum | Software Engineer | Bangalore, IN

Sep 2021 – May 2022

- Designed and improved Web APIs with Scala on the Play framework, enabling efficient RESTful interactions.
- Delivered and owned Autotask integration features using scheduled jobs and event-driven architectural system, enabling seamless data sync for over 8000 customers.
- Automated purchase order tracking with WebSockets and AWS Kinesis, using scheduled jobs for detailed order data, cutting manual checks by 50%.
- Analyzed and resolved customer bugs, decreasing weekly issues by 70% over 4 months and boosting customer satisfaction by 25%.

### JP Morgan Chase and Co. | Software Engineer | Bangalore, IN

Jul 2018 - Sep 2021

- Developed and maintained Elasticsearch server for indexing jobs and retrieval queries. Search time dropped from 11 to 1 second.
- Created REST Web APIs with Java, Spring Boot and GraphQL, exposing banker-specific and contact information for near real-time information retrieval, decreasing data lookup time by 70%.
- Owned and delivered an end-to-end Kafka based platform, achieving near real-time employee and customer data retrieval.
- Led the migration of a react application from flux to redux, improving state management and lowering application bugs by 40%.
- Built and maintained over 4 frontend applications from scratch in ReactJS and Redux, leveraging essential tools and packages.
- Initiated architectural design recommendations, accelerating development by 30% and ensuring rapid adaptation.
- Led production releases of at least 12 applications, adhering to Agile methodology to facilitate continuous integration and delivery.

# **PROJECTS**

# WeHeal | github.com/AshishAgarwal2101/WeHeal

Mar 2024

- Architected an AI-powered companion for counsellors and therapists, building an LLM agent with Langchain and vector database.
- Developed functionality to summarize patient case files, provide real-time chat recommendations to counselors, and manage context based on previous interactions.

# User Productivity Plugin | github.com/AshishAgarwal2101/user-productivity-plugin

May 2023

- Crafted a Chrome plugin to enhance user productivity by enabling daily goal setting.
- Utilized Javascript and Chrome APIs to create background scripts to monitor user time spent per website, along with the total time.

# **Distributed Hash Table** | github.com/AshishAgarwal2101/distributed-hash-table

Nov 2022

- Engineered a distributed hash table for scalable and efficient key-value pair storage and retrieval, utilizing the Chord protocol.
- 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.