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- **Medium.com: https://connect2pkhanna.medium.com/**

- **Reference: Curt K. | LinkedIn**

Skills & Tools

Design and Development of Backend Services, Spring boot, Spring Data, Spring State machine, React, Cloud, Data Structures,, Docker, EMC Documentum, Git, Maven, IntelliJ, Java, JavaScript, Jenkins, JMeter, JUnit, Kubernetes, Microservices, OpenText, Rest, Spring Framework, Unit Testing, VMware, Aws, Performance tuning, Your Kit(Heap Memory Analysis), AWR report reading, SRE SLI adherence, Security Auditing (UI), Splunk

Work History

Software Engineer 3, 08/2022 to Current
JPMC – India

- Led the implementation of RADAR, a software solution that provided insights into production systems and SDLC metrics. This distributed, plug-and-play product allows for customizable queries, adjustable intervals, and data source selection, including JIRA, Splunk, database servers, ServiceNow APIs, and vCenter APIs.
- Volunteered to address a critical issue for the business unit's product team, proposing a technical solution that streamlined the legacy UI event rule migration process, saving 60% of the migration time and reducing costs.
  Key Features:
  Developed a software layer to interpret directed rules for UI events, tackling complex element dependencies. Key achievements:
  Dependency Graph Export: Generated graphs to convert rules into CSV for system integration.
  Visual Dependency Mapping: Created visual maps of UI dependencies using React Flow for the product, development, and QA teams
  Change Detection: Designed a data structure to detect HTML changes through automated clicks, identifying page source changes triggered by events.
  This solution enhanced user journey understanding and dependency mapping, facilitating efficient migration and significantly reducing time for the product and QA teams by enabling visualization of dependencies for rules/events and event change values
- Maintaining the case management service, these cases were raised for and via customers through emails, calls.
- Developed a Query Manager Service that receives queries from various services/ui clients and routes them to specific LLM services.
- Fixed burning security issues XSS on the backend layer.
- Tuned the setting of postgres database instance to improve performance of the service.
- Developed a backend system that fetches and scrapes financial data, including balance sheets and profit and loss statements, from various paid and free sources. The data is stored for in-depth analysis
  Key Features:
  Identifies stocks with the best recent quarterly performance.
  Queries and filters companies based on the rate of increase in quarterly profits.
  Finds correlations between company stock movements and market indices, as well as inter-company stock movements.
  Detect which fund houses move out and move with a stock to keep a tab and study their movements.

Staff Engineer, 08/2018 to 08/2022
VMware– India

- Developed a listener to capture and interpret events from another system, enabling the tracking and state management of inventory objects.
- Worked on cloud infrastructure and vCenter integration.
- Collaborated with the Architect to address scalability challenges related to configuration fetch to the database, proposing and implementing a solution.
- Implemented a watchdog layer for each service instance to monitor system health and report to a centralized monitoring system.
- Optimized database performance by addressing configuration issues and identifying low-priority queries. Proposed processing these queries asynchronously to improve the efficiency of high-priority operations such as inserts, updates, and reads.
- Resolved issues related to PostgreSQL vacuuming and fine-tuned the vacuuming process for better performance.
- Addressed and resolved production issues in collaboration with customers.
- Led the development of a patient monitoring system during the COVID-19 pandemic. Created an ICU machine simulator that transmitted health signals to the backend, managed by VMware Wavefront for visualization, prediction, and alerting. This project garnered interest from Dell and led to discussions with key figures such as Mike Lonze (Sr. Director, VMware), Chris Wolf (CTO, VMware), and Robin Braun (CIO, Dell Healthcare) regarding a potential product release. Concerns about data privacy due to public cloud usage were also addressed.

Engineer - 09/2017 to 08/2018
IBM (security)– India

- Wrote the backend for the reporting service for the incident.
- Respond to production tickets and help closing them.
- Demo the feature (public feed) to the internal customers (IBM)

Engineer - 2016 to 2017
Intuit – India

- Fix defects
- Wrote the API to give the risk score to the customer based on its current and past financial stats.
- Proposes a solution that gets data from multiple sources and show on the ui for better understanding.

Engineer - 2016 to 2016
Myntra– India

- Internal Tool Development for analytics.
- Developed the UI and backend to store historical results of the test results.
- Part of Production Stability team.

Engineer - 2012 to 2016
Harman – India

- Worked for VMware Client
- Fix defects
- Write unit tests
- Wrote validation framework from scratch for Epic Care Adapter.
- Part of Production support & Production Stability team.

Education

Bachelor of Technology: Electronics and Communications Engineering
Guru Nanak Dev University, India,
National Entrance Exam Rank secured – 2004