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DIP PANSURIYA

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EDUCATION

Master's in computer science - University of Southern California — ***December 2017***
Bachelor of Technology in Computer Engineering - Ganpat University — ***May 2014***

SKILLS

Languages: Java, Python, TypeScript, JavaScript, Node.JS, Angular
Framework and Databases: Spring, JavaFX, SAP HANA, MySQL, Oracle 11g, NoSQL
Cloud Platforms and Tools: AWS, GCP, Azure, Kafka, Kubernetes, Docker, Git, Grafana, InfluxDB, CI/CD, Dynatrace

PROFESSIONAL EXPERIENCE

Senior Software Engineer,* SAP, Palo Alto, CA** — ***September 2019 - Present

- Developed and implemented a machine learning model in SAP Ariba using Python to predict shipment delays, improved supply chain visibility by 12% and **reduced delivery disruptions by 7%** through proactive mitigation
- Built SAP-exclusive Material Traceability Ship Notice using Java to track up to 100K serial numbers per product, leveraging time-series forecasting models to predict shipment delays and enhance supply chain visibility, resulting in a **40% reduction in manual tracking time**
- Worked on the Material Requirement Planning (MRP) using **Kafka** to convey and collaborate proposed changes in quantity and dates
- Led a team while partnering with cross-functional leaders to define the technology roadmap, deliver solutions, build a high-performing team, mentor peers on SDLC best practices, and automate CI/CD pipelines for build, dockerization, and **GCP/Azure** deployment
- Handled critical customer issue and production issues, implemented effective resolutions that boosted **customer success rate by 9%**

Software Engineer*, Samsung Research America, Mountain View, CA** — ***March 2019 - August 2019

- Designed and built high-performance REST APIs and scalable multiuser services for Samsung's Artificial Intelligence, enhancing real-time processing, and **reducing service latency by 30%,** enabling seamless AI-driven user experiences
- Developed AR Cloud solutions to support next-gen Augmented Reality applications and built scalable services for enterprise products

Software Engineer*, Veritas Technologies LLC, Mountain View, CA** — ***February 2018 - March 2019

- Designed and developed REST APIs using Java for Veritas NetBackup, an industry-leading Enterprise Backup and Recovery product
- Maintained mainline stability by resolving issues across Virtualization (VMware, Hyper-V), NBU Core, NBU Web Services, and Security

Software Developer Intern - Innovation POD,* Veritas Technologies LLC, CA** — ***May 2017 - August 2017

- Developed analytics apps (in-house and external integrations) using REST APIs with Java Spring for Veritas' Apps Marketplace platform
- Built an intelligent **Slack chatbot** to monitor and report Veritas NetBackup's environment health, improving monitoring time by 32%

Programmer Analyst*, USC Institute for Creative Technologies, CA** — ***October 2016 - May 2017

- Design Virtual Acquisition Career Guide for US Army Acquisition, logistics and technology workforce using Sim Coach

ACADEMIC EXPERIENCE

Research Paper Summarization (Java, Python, NLP) — ***USC, Fall 2016***

- Conceptualized a tool for automatic summarization of scientific research papers using summary extraction techniques
- Implemented summary extraction using **k-means clustering**, abstraction based on SOP triplets and generated semantic graph
- Used machine learning **SVM classifier** to classify the data and evaluated model through precision, recall and F1

Spam Filtering (Python, AWS, EMR, EC2, NLP) — ***USC, Fall 2016***

- Implemented Naïve Bayes classifier and Perceptron learning algorithm to predict unseen email as spam or ham with 98% accuracy
- Deployed GUI interface and evaluated performance of the model on Hadoop cluster using Elastic Map Reduce for various cluster sizes
- Remodeled Add-on and Laplacian smoothing to improve model efficiency with **98.5% accuracy**

Search Engine Enhancement (Java, Python) — ***USC, Fall 2016***

- Built multithreaded Internet bot interface for crawling webpages and compared results between Solr and PageRank algorithm
- Devised edit distance algorithm for spell checker and generate autocomplete, snippet functionalities in search engine

Stock Search Information (PHP, JSON, AWS Beanstalk) — ***USC, Spring 2016***

- Developed responsive web app for stock market history, newsfeed, using RESTful services with Facebook sharing, and bookmark storage

ACHIEVEMENTS

- Awarded by SAP for leading global migration of **79B** records, improved database performance and integrity **by 7%** — ***February 2024***
- Secured first rank for Highest customer value, Veritas Intern Showcase – Innovation POD — ***August 2017***