

# PRACHI KOTKAR

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## SUMMARY

Software Engineer with 3+ years of enterprise development experience, specializing in Java, Python, and databases (SQL & NoSQL). Strong understanding of server-side business logic, microservices architecture, CI/CD, and agile methodologies. Adept at designing scalable systems with reusability, maintainability, and performance optimization.

## EDUCATION

### Santa Clara University, Santa Clara, California

Sep 2023 - May 2025

Master of Science, Information Systems

GPA: 3.8/4.0

**Coursework:** Java Programming, Data Analytics in Python, Information Systems Analysis, Big Data Modeling, Machine Learning

**Teaching Assistance** - Data Warehousing: Facilitated labs and instructional sessions in SQL and Tableau.

### Vishwakarma Institute of Technology

Aug 2016 - May 2020

Bachelor of Technology, Computer Engineering

GPA: 3.84/4.0

**Coursework:** Object-oriented Programming, Database Management Systems, Data Structures, System Design

## TECHNICAL SKILLS

**Programming:** Java, Python, SQL, C++, C, JavaScript, Shell Scripting

**Technologies** Java EE, Spring, Spring Boot, Hibernate, REST, Microservices, Apache Spark, Kafka, Containerization, Kubernetes, Linux

**Databases:** MySQL, PostgreSQL, DynamoDB, MongoDB, Redshift, Redis

**Frameworks & Tools:** AWS, Tableau, Docker, Git, Jenkins, Azure, GCP, JUnit, Node.js, Angular, React, Agile

## WORK EXPERIENCE

### Atlassian

Jan 2024 - June 2024

Analyst, Practicum

Santa Clara, CA

- Identified and addressed the friction points in customer purchasing experience for Jira and Confluence products
- Extracted, transformed, and analyzed data to develop a predictive model in python and estimate the customer transition from trial to paid subscription
- Derived insights to help the marketing team document key findings for growth opportunities and increase revenue

### Teachers Insurance and Annuity Association of America (TIAA)

Jul 2020 - Aug 2023

Senior Software Developer

Pune, India

- Led the development and migration of the application to AWS, improving performance by 20% and reducing the Service Level Agreement (SLA) response time by one month
- Designed and implemented **automated** workflows in **Python** for processing trade files, to create 7 intraday reports in MS Excel, notifying via email every 30 minutes, driving a 25% reduction in manual effort saving one hour
- Collaborated with product managers & cross-functional teams to generate solutions, enhancing customer service & user experience
- Mentored interns & new team members, led code reviews, and ensured best practices for high-quality products

Software Developer

- Developed an end-to-end, scalable **microservices**-oriented architecture rewriting the vaadin based legacy application into **Spring Boot**, and **JavaScript**, implementing **REST APIs**, saving the support cost by 15%. Received annual achievers award for this project
- Performed **query optimization** in **MySQL** and **pagination strategies**, slashing report loading time by 25 seconds
- Eliminated a single point of failure of 5 applications by decoupling 2 applications using JWT token **authorization** and migrating it to Amazon Web Services (**AWS**)
- Utilized test automation, debugging, & optimization to enhance code quality, performed unit & integration testing, and resolved multiple critical production issues using Splunk
- Monitored server status and request redirections using the F5 portal during DR testing
- Integrated CI/CD pipelines** using Jenkins and AWS CloudFormation for automated deployment of infrastructure as code, ensuring application resilience.

### Expedite Informatics

Jan 2020 - Jun 2020

Software Engineer Intern

Pune, India

- Developed **Python** scripts in **Robotic Process Automation** (RPA) project to schedule an email notification service informing users about the application status, reducing daily manual efforts from 2 hours to 5 minutes
- Improved efficiency of the application, reduction in manual errors and the cost by 50%

## PROJECTS

### Log file Analysis | Python, Spark, Kafka, HDFS

- Developed a project for real-time transformation and analysis of 17GB log files utilizing a log analytics solution
- Implemented K-Means clustering algorithm to improve request grouping efficiency
- Created a data-flow pipeline to ingest log files into Kafka, used Spark Streaming to conduct real-time transformations, and stored the processed data on HDFS in Parquet format
- Identified frequently occurring errors in log files and analyzed the highest number of user requests on a particular day

### US Car Accidents Analysis | Python, EDA, Pandas, NumPy, Matplotlib, PySpark, Amazon S3, Power BI

- Conducted an in-depth analysis of a dataset comprising 7.7 million U.S. car accident records
- Utilized advanced data science techniques and tools, including Pandas, NumPy, Matplotlib, Seaborn, and Plotly
- Used Spark, Power BI for data ingestion and visualization to derive meaningful insight, saving the final result on Amazon S3