

# SOURABH DEEPAK KULKARNI

Chico, CA

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## Summary

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Software Engineer with 3+ years experience in building scalable microservices, and REST APIs in 10 projects. Proficient in Java/C++/Python, Databases (PostgreSQL, MongoDB), automation, and data warehousing.

## Education

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**California State University, Chico**

Expected May 2024

*Master of Science in Computer Science: (GPA: 3.91/4.0)*

**Savitribai Phule Pune University**

July 2015 – June 2019

*Bachelor of Computer Engineering: (GPA: 3.85/4.0)*

## Experience

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**HSBC Technology India**

Pune, India

**Senior Software Engineer**

March 2022 – July 2022

- Overhauled REST APIs for Hadoop to PostgreSQL and Hadoop to Oracle Migration which reduced execution time by 120%. Deployed application using on-premises VMs.
- Created Jenkins pipelines and Ansible job templates for automated deployments using Groovy scripts and produced daily reports of any vulnerabilities and errors using Checkmarx and Nexus IQ scans, reducing manual work by 40%.

**Software Engineer**

July 2019 – March 2022

- Implemented high-performance REST APIs for Relationship Managers of high-net-worth customers to provide customers asset details using Spring and Apache Camel. Leveraged connection pooling to enhance API performance by 50%.
- Automated code deployment, testing, and daily report creation using Jenkins and Ansible saving manual work by 30%.
- Spearheaded Hadoop-based data warehousing enhancements and ETL processes, utilizing HQL, Python, and Shell scripts to cut data loading times by 40% and boost system efficiency.
- Led a small team of 3 people to develop Spring Boot APIs on an in-house service hosting platform based on AWS, Docker, and Microservice architecture. Enabled Splunk and AppDynamics tools for application monitoring.

## Projects

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**EchoVisuals** | *Node.js, Express.js, MongoDB, React, TailwindCSS, OpenAI, Cloudinary* | **Link** July 2023 - August 2023

- Developed an AI-driven image generation platform using MERN and TailwindCSS, integrating OpenAI's DALL-E for creative image interpretation. Enhanced image management and accessibility with Cloudinary, reducing load times by 60% and boosting user satisfaction.

**SereneStyles** | *React, Tailwind CSS, Java, Spring Boot, JWT, MySQL* | **Link**

October 2021 - November 2021

- Engineered a full-stack e-commerce web application with React, Spring Boot, and JWT, improving page load times by 25%. Implemented a user-friendly interface with Tailwind CSS, enhancing secure and efficient data management.

**Mr. Voice Pay** | *Alexa, Google Assistant, AWS, GCP, Python, Java, Android Studio* | **Link**

September 2019

- Architected an accessible online banking app for visually impaired users integrating voice commands via Alexa and Google Assistant with AWS and GCP, increasing user satisfaction by 30%.
- Enhanced security features by 50% with voice and biometric authentication and Morse Code login, supporting secure voice-guided transactions up to \$2000.

**Intelligent Cyber Security System** | *Neural Networks, Python, Wireshark, Flask* | **Link** August 2018 - March 2019

- Designed a real-time network attack detection system using neural networks in Python and Flask, achieving 90% accuracy in identifying threats.
- Employed Wireshark for packet capture and analysis of 3 attacks, and utilized the National Vulnerability Database(NVD) for ongoing threat assessment.

## Technical Skills

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**Languages:** Java, C++, Python, C, SQL, HQL, Groovy, YAML, C#

**Tools/Frameworks:** Spring, Spring Boot, GCP, AWS, Git, IntelliJ, Android Studio, Docker, JUnit, TensorFlow, PyTorch

**Databases:** MySQL, PostgreSQL, Oracle, Hive, MongoDB, Hadoop

**Web Technologies:** HTML, CSS, JavaScript, REST APIs, React, Node.js, Flask, PHP, Angular, Typescript

**Others:** Jenkins, Ansible, Control-M, Checkmarx, Nexus IQ, AppDynamics, Splunk, Kafka, Spark, Kubernetes, SQS

## Extracurricular

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- Received 2nd prize in the annual competitive coding competition organized by ACM Club at CSU Chico 2022.
- Led a team of 10 juniors to organize an event 'Reverse Coding' - a mathematics-based coding event during the technical fest at PICT college hosted by the PICT IEEE Student Branch(PISB) in 2017.