

# Sandip

Nationality: Nepalese Date of birth: 31/03/1993

## ABOUT MYSELF

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Skilled in Java and Python, specializing in developing microservices with Spring Boot and integrating with AWS services such as S3, SQS, SNS, Lambda, RESTful services, NoSQL databases like MongoDB and AWS DynamoDB, and creating Grafana dashboards and alerts for monitoring the services as well as infrastructures. Hands-on experience with iOS attestation and Android SafetyNet implementation for mobile app securities. Proficient in using GitHub, GitLab, and GitHub Copilot for streamlined workflows. Familiar with building GIS tools in Python, utilizing data science libraries such as NumPy, Pandas, and Matplotlib.

## DIGITAL SKILLS

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### Java Development

Java 8, Java 11 / Microservices / Spring/Spring-Boot / Spring Data / JPA / Maven and Gradle / AWS Lambda / AWS SNS / SQS / AWS, S3 / Jenkins / Apache Tomcat / Docker / Localstack

### Python Development

Python (pandas, numpy, matplotlib) / PyQt5 / TKinter (GUI) / Jupyter/Anaconda / QGIS

### Databases

MySQL / AWS DynamoDB / MongoDB / postgresSQL

### Tools and Services

Insomnia/Postman / Git / Gitlab / Github / Github Copilot / Agile (Scrum) / Atlassian stack (Jira, Confluence, ...) / Grafana Dashboard / Alerts / Slack

## PROJECTS

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### Smart Engagement - Caseware International

Developed a microservice to create backups of customizable audit forms (engagements) on AWS, ensuring GDPR and data compliance on the AWS cloud. The service handles binary data and physical files, with functionalities for listing, deleting, and restoring backups, along with action history tracking. Integrated a reporting and monitoring module for cloud infrastructure using Grafana.

**Technologies:** Java 17, SpringBoot, Gradle, AWS (S3, SQS, SNS, Lamda, DynamoDB), OpenAPI, REST, Insomnia

#### Responsibilities:

- **Design and develop:** Design, develop, and implement scalable, high-performance software solutions, ensuring alignment with business objectives and technical standards.
- **Code reviews and mentorship:** Conduct code reviews, enforce best practices, and guide junior developers.
- **Requirements analysis:** Collaborate with stakeholders to gather and analyze technical requirements, translating them into well-defined solutions.
- **Project leadership:** Lead projects from inception through completion, managing timelines, and deliverables, and ensuring high-quality results.
- **Technical troubleshooting:** Diagnose and resolve complex technical issues across different platforms, ensuring system reliability and performance.

- **Collaboration:** Work closely with cross-functional teams, including product managers, designers, and QA engineers, to deliver software that meets business and user needs.
- **Documentation:** Maintain technical documentation for internal and external audiences, ensuring code and systems are well-documented for future reference.

### **Micheal Kors - Retail Mobile App Development**

Developed an e-commerce mobile app for retail, featuring user login, browsing, managing cart, and purchasing functionalities for Michael Kors products.

**Technologies:** Java 8, Spring Boot, RESTful Services, Swagger, MySQL

#### **Responsibilities:**

- Conducted requirement analysis and documentation.
- Designed and developed the microservice from scratch.
- Wrote JUnit test cases and tested APIs using Postman.
- Documented API development with Swagger.
- Managed to pull requests and performed code reviews.

### **Workflow - TomTom Maps**

Developed a web project to track and manage the status of unique tasks in TomTom's map-building operations, ensuring task assignment and progress across various states.

**Technologies:** Java 8, Spring MVC, Maven, JUnit, Tomcat 8, PostgreSQL, REST Services, Jenkins

#### **Responsibilities:**

- Performed requirement analysis and documentation.
- Developed, debugged, and updated functionalities based on customer requirements.
- Wrote JUnit test cases using the Mockito framework for various scenarios.
- Conducted code reviews and triggered Jenkins jobs for deployment.

### **Cascading and CPP-QA - TomTom Maps**

Developed and maintained core systems for TomTom Maps. Cascading automatically creates necessary associations and attributes for GIS features, while CPP-QA checks for rule violations during map editing by executing rules from the Rule Management System.

**Technologies:** Java 8, Spring Boot, Maven, JUnit, Tomcat 8, PostgreSQL, REST Services, Jenkins, Hadoop, AWS

#### **Responsibilities:**

- Conducted requirement analysis and documentation.
- Developed Java rules for the Rule Management System.
- Wrote JUnit test cases using the Mockito framework.
- Managed pull requests and performed code reviews.

### **Pixafari -- TomTom Maps**

It is a plugin that is built over the QGIS framework, to analyze the satellite imagery and give categorized data for the different Land Use and Land Cover areas of land. Those images are captured with a Label to create Data Models from Structured Data so that we can apply a Supervised learning algorithm in Machine Learning.

**Technologies:** Python 3.6, QGIS, Geopandas, Pandas, Numpy, Multithreading, PostgreSQL, Tableau

#### **Responsibilities:**

- Requirement Analysis and documentation.
- Develop the required functionality in Python.
- Write PyUnit test cases for different scenarios.

- Create pull requests, code reviews and merge branch to master.
- Creating a new setup for each version of the software.

## WORK EXPERIENCE

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### Senior Software Engineer

**Globallogic India** [ 11/10/2021 – Current ]

City: Noida | Country: India

### Software developer

**Cyient Limited** [ 29/10/2017 – 07/10/2021 ]

City: Noida | Country: India

## EDUCATION AND TRAINING

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### BACHELOR OF TECHNOLOGY

**Dr. A.P.J. Abdul Kalam Technical University** [ 31/05/2012 – 30/04/2016 ]

Address: Lucknow Lucknw, Lucknow (India) | Website: <https://aktu.ac.in/>

### HIGHER SECONDARY

**National Infotech** [ 11/04/2010 – 11/04/2011 ]

Address: Siromani Tole Birgunj, Birgunj (Nepal) | Website: <https://nationalinfotechcollege.edu.np/admission/>

### SECONDARY

**Kalaiya Bright Land Secondary Boarding School** [ 11/04/2008 – 10/04/2009 ]

Address: Kalaiya Kalaiya, Kalaiya (Nepal) | Website: <https://www.facebook.com/Kalaiya-bright-land-secondary-boarding-school-348467886020066/>

## LANGUAGE SKILLS

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**Mother tongue(s):** Nepali

**Other language(s):**

Hindi	English
LISTENING C2 READING C2 WRITING C2	LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2	SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user