

# BINDISHA PARMAR

## Software Developer

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### PROFILE

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Results-driven GIS and Java Developer with 5 years of experience in Agile software development, Geospatial Technologies, and DevOps practices. Skilled in building interactive map solutions, with experience in Java, Spring Boot, microservices architecture, and database management, and cross-functional collaboration to deliver scalable enterprise applications. Adept at translating complex business needs into innovative technical solutions. Currently pursuing an MSc in Software Design with Cloud Native Computing, with a focus on modern software architectures and agile development.

### PROFESSIONAL EXPERIENCE

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#### COGNIZANT INFORMATION TECHNOLOGY

Mumbai, India

##### Software Developer

Oct 2021-June 2024

- Developed APIs for geospatial and enterprise systems, increasing integration efficiency.
- Created interactive map layers using OpenLayers and GeoServer, boosting user engagement by 30%.
- Optimized API Gateway access, reducing latency by 25%.
- Delivered data load automation (initial and delta), reducing manual tasks by 40%.
- Led testing and debugging for UK clients like Network Rail, ensuring robust releases.
- Enhanced CI/CD workflows supporting agile DevOps practices.
- Translated complex business logic into scalable, production-ready code.

#### BCITS PVT. LTD.

Bangalore, India

##### Software Engineer

Jan 2019-Oct 2021

- Built RESTful APIs with Spring Boot and JPA Hibernate for government billing projects, including Kerala Electricity Board (KSEB).
- Designed and deployed REST APIs for government billing systems, including Kerala Electricity Board (KSEB).
- Developed UI components using HTML, CSS, JS, and jQuery for real-time data interaction.
- Integrated Kafka and ELK stack for smart meter data handling, improving accuracy.
- Managed Android APK lifecycle, enabling seamless feature delivery.

### EDUCATION

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#### MSC IN SOFTWARE DESIGN WITH CLOUD NATIVE COMPUTING

ATHLONE, IRELAND

TECHNOLOGICAL UNIVERSITY OF THE SHANNON

SEPTEMBER 2024-PRESENT

Modules: Microservices, Continuous Build and Delivery, Containerization (Docker/Kubernetes), Agile Development, Object-Oriented Programming, Applied Scripting, Engineering Project, Research Methodologies, and Work Placement.

#### MASTERS IN COMPUTER APPLICATION

RAJASTHAN, INDIA

RAJASTHAN TECHNICAL UNIVERSITY

2011-2014

## TECHNICAL SKILLS

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- **Languages & Frameworks:** JavaScript, Node.js, Python, Java, Spring Boot, Angular, OpenLayers.
- **Cloud and DevOps:** Microsoft Azure, AWS (EC2, RDS, S3, ECS), Docker, Kubernetes, Jenkins, Git & GitHub
- **GIS Tools:** QGIS, ArcGIS, Geoserver
- **Databases:** Postgres, Oracle
- **Integration & Reporting:** Kafka, ELK Stack, Rest APIs, Jasper Soft

## LICENCES AND CERTIFICATIONS

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- Full Stack Java Developer Training Program.
- GIS Advanced Training & Internship – SysGlob Software Solutions.
- NASA Space Apps Challenge Certification
- German Language – A1 & A2 Certified.

## PROJECTS

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- **Engineering Team Project:** Collaborated with a multidisciplinary team to design a resilient communication system for disaster scenarios, addressing the challenges of interoperability across heterogeneous decentralized networks. We worked on building a solution that ensures seamless communication when traditional infrastructure fails. The system achieved 95% message delivery success in partitioned networks and reduced synchronization latency by 40% through adaptive routing protocols.
- **EcoZoneMapper:** <https://github.com/Bindisha/cinco-nasa-spaceapps>  
Developed a customizable GIS Mapping web app to illustrate waste pathways to ocean contamination. It helps in tackling ocean contamination by showing waste management practices in different region. It also includes sustainable metrics.
- **Container Orchestration Project:** [https://github.com/Bindisha/flightservice\\_dockercompose](https://github.com/Bindisha/flightservice_dockercompose)  
Designed and implemented a container orchestration solution using Docker and Kubernetes, streamlining the deployment process and improving system scalability. Developed detailed documentation and utilized interactive dashboards to monitor deployment and operational metrics.
- **Dynamic Geospatial Dashboard:** Developed interactive map with OpenLayers and data filtering for real-time insights.

## AWARDS & RECOGNITION

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- Above and Beyond Individual Contributor – Cognizant (2022)
- Team Key Player Award – Cognizant (2022)

## HOBBIES & EXTRACURRICULARS

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- Open-source contributor in GIS and Java communities
- Sprint planning and mentoring junior developers
- Environmental and social volunteering
- Participated in intercultural events and language clubs