

# Palash Kanti Kundu

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## SUMMARY

Experienced software engineer with 14+ years of expertise in designing, developing, and scaling cloud applications, ETL pipelines, microservices, and AI solutions. Strong proficiency in cloud computing (AWS), statistical models, deep learning, and real-time data systems. Proven ability to architect solutions, mentor teams, and deliver enterprise-grade applications that exceed expectations. Award-winning performance across multiple domains, including renewable energy and supply chain management.

## PROFESSIONAL EXPERIENCE

### Infosys – Bangalore

Senior Technologist, STG | 2024 – Present

- Design and develop cloud application for Gasoline Production Monitoring and Reporting solutions using AWS Lambda, Python, ReactJS, PostgresDB
- Lead development team consisting of 5 developers including Back End and Front End Engineers

#### Key Achievements

- Successfully developed Gasoline Production Monitoring and Reporting solutions from scratch for British Petroleum

### Hewlett Packard Enterprise – Bangalore

Cloud Developer III | 2022 – 2024

- Design and develop cloud applications for storage solutions using Apache Spark, PostgresDB, and AWS.
- Lead ETL job development for processing large-scale time series data, implementing both statistical models and deep learning techniques for forecasting.
- Trained and fine-tuned LLM models using customer data to generate recommendations, improving overall system efficiency.

#### Key Achievements

- Successfully enhanced cloud application performance, optimizing ETL pipelines for faster data processing.
- Mentored junior developers, guiding them in cloud and AI application development.

### GE Renewable Energy – Hyderabad

Senior Software Engineer | 2018 – 2022

- Architected a data communication flow for GE wind farms, processing millions of data points per second to optimize wind turbine performance.
- Developed a Domain-Specific Language (DSL) compiler and built microservices for cross-platform SCADA systems deployed in Halliade X and Cypress turbines.
- Implemented system-to-system communication protocols (Modbus, OPCDA, OPCUA) for secure and efficient data transfer.

### Key Achievements

- Reduced memory usage by 80% through the design of an in-memory cache system, enhancing the performance of data processing tasks.
- Recognized with the GE Technical Excellence Award for significant contributions to system architecture.

### Oracle India Pvt. Ltd. – Hyderabad

Senior Applications Engineer | 2016 – 2018

- Developed B2B communication applications for Oracle's Supply Chain Management, utilizing Oracle ADF and SOA Fusion Middleware.
- Spearheaded the design of SOA-based solutions for efficient data exchange across multiple platforms.

### HCL Technologies – Kolkata

Senior Software Engineer | 2014 – 2015

- Built a web application to streamline telecom service availability checks, using Oracle ADF and Fusion Middleware.
- Maintained legacy applications developed using Oracle WebCenter Framework, ensuring stability and enhancing functionality.

### Cognizant – Kolkata

Programmer Analyst | 2011 – 2014

- Developed a jQuery-based UI plugin and a reporting engine for Citi Bank's internal use, enhancing operational efficiency.
- Built and maintained Java-based applications, ensuring high performance and scalability.

## EDUCATION

College of Engineering and Management Kolaghat

Bachelor of Technology, Information Technology | 2011 | Grade: 7.34/10

## TECHNICAL SKILLS

- Languages: Java 8, Python, C#, Rust, Go, SQL, Javascript
- Frameworks: Spring Boot, .NET, React.js
- Data Processing: Apache Spark, PostgresDB, ETL, Time Series Analysis
- Cloud Platforms: AWS (EC2, EKS, S3, RDS), Microservices, RESTful Web Services
- Protocols: Modbus, OPCDA, OPCUA
- Tools: Oracle ADF, SOA Fusion Middleware, Design Patterns, Node.js

## AWARDS & CERTIFICATIONS

- GE Technical Excellence Award
- HCL Spot Award
- Cognizant Star Award
- Oracle Certified Java Programmer
- Coursera Machine Learning Specialization
- SAFe for Teams Certification
- W3Schools JavaScript & HTML Certifications

## PERSONAL PROJECTS

- Machine Learning Library: Built from scratch using Rust, available on [GitHub](#)
- HDL Emulator: Developed an online Hardware Description Language emulator using React.js, accessible at [Emulator](#)