Biju Borah

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Summary

Software Engineer with 2+ years of experience building enterprise ERP software at Oracle NetSuite, including scalable backend services, REST/SOAP APIs, and payroll and payment systems in Java, SQL, and Python, with experience in CI/CD, test automation and prompt engineering.

Education

- **National Institute of Technology, Silchar** — Assam, India
  Bachelor of Technology - Electrical Engineering; CGPA: 8.72 — *July 2020 - June 2024*

Skills

- **Languages**: Java, TypeScript, JavaScript, Python, SQL
- **Backend & APIs**: Spring Boot, REST APIs, SOAP APIs, SuiteScript, Node.js, Django
- **Frontend & Databases**: React, Next.js, Oracle SQL, PL/SQL, PostgreSQL, MongoDB
- **Tools & Engineering**: Git, Jasmine, Playwright, TeamCity, Postman, Unit Testing, CI/CD, Prompt Engineering

Work Experience

- **Oracle — NetSuite** — Hyderabad, Telangana
  Application Software Engineer 1 — *July 2024 - Oct 2026*
  - Developed backend services in **Java** for NetSuite's U.S. Payroll to implement jurisdiction-specific tax logic across **600+** tax jurisdictions, and built a **SOAP-based integration** that automates federally mandated (**PRWORA**) new-hire reporting to state agencies for **40,000+ customers**.
  - Developed **REST APIs** to integrate NetSuite's P2P platform with external payment services and built a reliable payment-processing service with bounded retries, timeout handling, and state reconciliation for domestic and international vendor payments, supporting bulk submissions of up to **500 payments** per run and handling **$200M+ in monthly transactions**.
  - Optimized **SQL** queries across 4 transaction record types using streamlined joins, parameterized filtering and pagination, reducing load time by **80%** and eliminating timeouts on datasets exceeding **1M records**.
  - Automated **1,400+** API and UI regression tests in **Jasmine** and **Playwright** using AI-assisted code generation, and integrated the suite into **TeamCity CI pipelines** for automated execution, covering critical workflows across the core product areas and reducing release validation from **1 week to 8 hours**.
  - Developed three **AI agent skills** with prompt engineering, input validation, and guardrails to automate test plan generation from **Jira** acceptance criteria, UI test script generation and **TeamCity** build failure analysis using **Python** and **PowerShell**, reducing manual QA effort by **50%**.
  - Owned **on-call** resolution of customer-reported **production issues** (U2-U5 escalations) across NetSuite's P2P and U.S. Payroll modules, **debugging** via application logs and code analysis to identify root causes and deliver fixes, typically within the same day.

Projects

- **FloodSafeGIS** — **Web Github**
  under Smart India Hackathon 2023 — *Oct 2023 - Dec 2023*
  - Developed an AI/ML-based GIS application leveraging **UNET** architecture to predict flood inundation extent based on satellite image data, achieving a dice coefficient of over **88%** when compared to HEC-RAS and reducing inference time by **95%**.
  - Built a **Django** and **Next.js** application with **Google Maps** integration to visualize model-predicted flood inundation maps, achieving model inference times of **10 milliseconds**. Secured a **Rs.10 lakh** grant from the Ministry of Education's IIC under the Yukti Innovation Challenge for further development.

- **CardioSense** — **Github**
  Final Year Project — *Jan 2023 - May 2024*
  - Developed a portable AI-powered ECG monitoring system, integrating a **custom PCB** with an **ATmega328P microcontroller** and a mobile app for USB signal acquisition and live waveform visualization.
  - Implemented a **Pan–Tompkins signal-processing pipeline** using 5–15 Hz bandpass filtering, differentiation, squaring, moving-window integration and adaptive thresholding to detect R-peaks and QRS complexes in noisy signals and integrated a remotely hosted **CNN–LSTM model** for automated ECG classification.

Honors and Awards

- **Winner**, Smart India Hackathon (National Level) *2023*
- **Winner**, Un-flood Assam, MeitY Hackathon (State Level) *2022*
- **Winner**, NITS Hack 5.0 (Inter-College Level) *2022*