

Bidyut Kundu

Software Engineer

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Summary

Backend-focused Software Engineer with 3+ years independently owning distributed systems end-to-end — from architecture through production support — using Node.js, AWS, and React.js. Experienced designing microservices, event-driven pipelines, and high-concurrency APIs, with a track record of measurable reliability and cost improvements. Comfortable working with minimal supervision and taking full accountability for outcomes.

Experience

Conas Consulting Private Limited

Software Engineer | Pune | April 2023 – July 2026

Tech Stack: Node.js, React.js, Express.js, PostgreSQL, MongoDB, Redis, AWS (Lambda, API Gateway, SQS, RDS, S3, CloudWatch), K6 Load testing, Docker

- Independently identified and resolved a production outage under 50K+ concurrent requests; owned the full migration to a microservices architecture on AWS Lambda and API Gateway, validating resiliency through k6 load testing — achieved 99.9% uptime and reduced cloud costs by ~60%.
- Owned design and delivery of a QR-based tracking system across 10+ distributed nodes, architecting an event-driven pipeline with async workers and SQS-backed alerts from requirements through deployment; cut manual errors by ~80% and recovered ~2 hrs/day.
- Transitioned legacy OTP authentication to Microsoft OAuth 2.0, enforcing MFA and JWT-based session management; eliminated in-house credential infrastructure entirely.
- Resolved a database bottleneck (~30s query latency, millions of rows) using table partitioning, composite indexing, and a Redis caching layer with a cache-aside pattern; improved API response time by 93%, from 30s to 2s.
- Improved Core Web Vitals for low-bandwidth clients by refactoring React components, adding server-side caching, and offloading PDF generation to a background service; brought LCP down from 3.5s to 2.1s.

Skills

- Backend:** Backend: Node.js, Express.js, REST APIs, JWT, Microservices, Event-Driven Architecture
- Cloud & DevOps:** AWS (Lambda, API Gateway, RDS, SQS, S3, CloudWatch), Docker, CI/CD, GitHub Actions
- Databases:** PostgreSQL, MongoDB, Redis
- Frontend:** React.js, Next.js, Tailwind CSS
- Languages:** JavaScript (ES6+), TypeScript, SQL

Projects

OpenSource UI – React/Next.js Component Library [GitHub Link](#) [Demo Link](#)

- Built and publicly launched an open-source library of 150+ React/Next.js components (Tailwind CSS, TypeScript); grew to 500+ users and 5K+ page views in the first 2 weeks post-launch, with ~35% retention and 11-min avg. session time (tracked via PostHog and custom analytics).

Codewise – AI Code Review System [GitHub Link](#) [Demo Link](#)

- Integrated Google Gemini's LLM API to analyze GitHub commit diffs and generate structured code review feedback, applying prompt engineering to produce consistent, actionable output across varied codebases.
- Reduced manual review effort by automating first-pass feedback, improving review turnaround and consistency across the team.

Authscale – Secure Backend Starter CLI for Node.js [GitHub Link](#) [Demo Link](#)

- CLI tool generating a production-ready Express.js backend with built-in auth and security defaults, eliminating repetitive setup and common misconfiguration risks.

Awards and Certificates

- [AWS Lambda Foundations](#)
- [Amazon API Gateway for Serverless Applications](#)

Education

- Bachelor of Commerce (B.Com)** - Bankura Sammilani College, Bankura University | July 2018-Aug 2021 | Aggregate: 70.6%
- Higher Secondary (Science)** - Jhantipahari High School, West Bengal Council of Higher Secondary Education | 2017 | 84%