

YUBARAJ BISWAS

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PROFESSIONAL SUMMARY

Results-driven Programmer Analyst with hands-on expertise in Healthcare and Pharmacy Benefit Management (PBM) systems testing, specializing in end-to-end manual QA across RxClaim adjudication and enterprise pharmacy web applications. Proven experience in real-time claims query validation, pricing and formulary setups, SQL database validation, and defect lifecycle management with SFDC (Salesforce) for a Fortune 10 US client. Passionate about full-stack engineering and AI-driven systems.

EDUCATION

B.P. Poddar Institute of Management and Technology <i>Bachelor of Technology in Computer Science & Engineering – CGPA: 7.42</i>	Kolkata, West Bengal September 2021 – June 2025
Central Model School Barrackpore <i>Higher Secondary (Class XII, P.C.M) – 71.83%</i>	Barrackpore, Kolkata June 2019 – July 2021
St. Xavier's Institution <i>Secondary (Class X) – 77.33%</i>	Kolkata, West Bengal April 2008 – March 2018

EXPERIENCE

Cognizant Technology Solutions <i>Programmer Analyst Project: QEA – Healthcare & PBM</i>	Kolkata, India September 2026 – Present
• Led end-to-end manual testing across RxClaim adjudication engine and enterprise pharmacy web applications, ensuring compliance with healthcare business rules for a leading Fortune 10 US client. • Executed comprehensive claims query testing — validating real-time adjudication, paid/rejected status codes, copay/coinsurance tiers, member deductibles, and benefit limits. • Verified pharmaceutical plan setups including NDC mapping, formulary configurations, brand-to-generic substitutions, and network pharmacy pricing matrices. • Formulated complex SQL queries against healthcare databases to audit claim tables and cross-verify transactional data integrity between web portals and backend adjudication systems. • Authored test plans, detailed test case suites, and RTM documents; drove defect triage and RCA with engineering and product teams via SFDC (Salesforce). • Collaborated in Agile/Scrum ceremonies — daily standups, sprint planning, backlog grooming, and test sign-off reviews.	
Programmer Analyst Trainee Project: QEA – Healthcare	September 2025 – September 2026
• Executed manual functional and regression test cases across core healthcare modules; validated claims data against business requirements and legacy records. • Managed defect lifecycle tracking, verification, and retesting in close coordination with development teams via SFDC (Salesforce).	
Programmer Analyst Intern	May 2025 – August 2025
• Completed intensive upskilling in STLC, test automation fundamentals, and Agile workflows. Passed all milestone evaluations and capstone assessments.	

PROJECTS

OtterSpeak Link Vue 3, TypeScript, Tailwind CSS, Pinia, Supabase, Edge Functions	2026
• Architected an interactive speech assessment pipeline integrating a custom-hosted Wav2Vec2 model (Hugging Face) that delivers phoneme-level accuracy scores and audio latency analysis in under 250ms. • Engineered a high-performance Vue 3 & TypeScript engine supporting rendering speeds up to 800+ WPM across 6 training modes, utilizing Pinia to guarantee sub-16ms (60fps) visual refresh rates. • Secured API architecture by routing 100% of external integrations through Supabase Edge Functions, eliminating client-side API key leakage and implementing Cloudflare Turnstile to block bots. • Cut external API consumption costs by 80% and reduced network latency to 0ms for repeating audio sessions by building a client-side caching pipeline utilizing the browser's Cache API. • Designed a gamified progression economy consisting of 5+ synchronized systems (daily energy, XP, streaks, and leaderboards) in PostgreSQL to drive user retention.	

English Learners Link | Next.js, TypeScript, Tailwind CSS, Shopify Buy SDK, Framer Motion2025

Content Creator & Freelance Web Developer | 17.8K+ Subscribers

- Created and edited high-engagement educational video content for English Learners on YouTube (**17.8K+ subscribers**), driving community growth and retention.
- Architected and developed a full-stack educational community platform with integrated video learning hubs and digital resource catalogs.
- Integrated Shopify Headless storefront via **Shopify Buy SDK** for course distribution; engineered fluid UI with sub-second page loads.

Enhanced NIDS using ML & Deep Learning Link | Python, TensorFlow, Scikit-learn2025

- Built a hybrid ensemble on UNSW-NB15 reaching **99.41% accuracy** and **98.66% F1-score**.
- Developed an **ANN (92.01% accuracy)** and **LSTM with Attention (93.3% recall)** for CICIDS 2018.
- Achieved a final **96.87% accuracy** and **95.4% precision** via a Level-1 meta-learning architecture.
- Applied **SMOTE** for class balancing and **StandardScaler** to optimize high-dimensional network traffic data.

SIDE VENTURES

NoTokens Link2025 – Present

Co-Founder & Lead Developer — Independent dev team building AI-first platforms

- Co-founded NoTokens, leading product engineering, full-stack architecture, and deployment of AI-powered applications including **OtterSpeak**.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Bash, Java, HTML/CSS

Frameworks & Libraries: React, Next.js, Vue 3, Node.js, Express.js, React Native, Tailwind CSS, Pinia, Selenium, Rest Assured

Databases & Vector Stores: PostgreSQL, Supabase, MongoDB, Firebase, Convex, ChromaDB, Docker, Git, CI/CD (Jenkins), Linux

Domain & QA Tools: RxClaim, Claims Adjudication, Healthcare PBM, SFDC (Salesforce), E2E Manual Testing, STLC & SDLC, Agile/Scrum

AI & Architecture: Gemini Enterprise & API, Agent Development, Hugging Face (Wav2Vec2), ElevenLabs, Prompt Engineering, GenAI, Edge Functions, RESTful APIs

Partner & Solution Enablement: Opportunity Qualification, Codex Positioning, Value Framing, Security Conversations, Evaluation Planning

ACHIEVEMENTS

Hackstorm — Techstorm 2025 - 1st Runner Up: Co-developed Healthsync, an AI-powered platform that streamlines prescription storage and automates medication management and reminders.

Abhigyan 2.24 - 2nd Runner Up: Secured 3rd position in the inter-college quiz competition.

WEB-O-LOGY — Techstorm 2023 - 1st Place: Secured 1st place in web development and algorithmic design challenge.

CERTIFICATIONS

Claude Certified Architect – Foundations (CCAR-F) | Anthropic (via Credly) | Certificate PDF

Certified Partner Specialist Gemini Enterprise Deployment | Google Cloud (via Credly)

Codex Solutions Practitioner | OpenAI Partner Network (via Credential.net)