

Prem Puri Goswami

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Professional Summary

AWS Certified Solutions Architect and Full-Stack Engineer with experience designing scalable, performance optimized systems and building user-focused applications supporting thousands of concurrent users. Skilled in React.js, Node.js, PostgreSQL, and cloud-native architectures, with hands-on expertise in distributed services, API design, and microservices. Proven ability to deliver secure, maintainable code for high-volume applications while collaborating with cross-functional teams. Passionate about AI infrastructure and building next-generation software systems

Education

Master's in information systems and technology (Computer Science & Engineering Focus) **01/2024 – 12/2025**
University of North Texas | GPA: 3.9/4.0

Professional Experience

Broadridge Financial Solutions - Software Engineer **07/2022 – 09/2023**

- Developed and optimized 20+ RESTful APIs using Node.js, Express.js, and PostgreSQL, improving backend data retrieval efficiency by 35% for real-time financial transactions.
- Designed and deployed scalable microservices on AWS Lambda and EC2, reducing infrastructure costs by 40% and enhancing system scalability.
- Integrated AWS S3 and RDS for secure, role-based data management and automated deployments through CI/CD pipelines.
- Delivered 15+ features in Agile sprints while collaborating with cross-functional teams to ensure robust, production-ready systems

Mobigesture – Associate Software Engineer **05/2022 – 06/2022**

- Engineered responsive and modular web interfaces using React.js, Bootstrap, and jQuery, cutting UI delivery time by 20%.
- Built dashboard modules and reusable UI components for internal operation systems, boosting developer productivity and consistency across platforms.
- Integrated secure and scalable REST and GraphQL APIs to power dynamic, data-driven user experiences.
- Collaborated with backend engineers to optimize data pipelines, caching strategies, and API performance.

Technical Projects

AI-Powered Job Application Tracker | *n8n, Google Gemini API, WhatsApp API, Docker* | Code

- Engineered an AI-powered workflow automation system deployed locally using n8n, Google Gemini, and WhatsApp to add, update, and track job applications in Google Sheets via conversational commands.

High-Performance 60fps Rendering Engine| *React.js, GSAP, Tailwind CSS* | Live Demo

- Developed a high-performance single-page interface with dynamic animations using GSAP, demonstrating proficiency in UI/UX design and frontend optimization.

Integrated LLM Workflow Service| *Vite, React.js, Manifest V3, Gemini API* | Live Demo

- Architected a Manifest V3 Chrome extension using React and the Gemini API to orchestrate context-aware algorithmic mentorship through structured prompt engineering and resilient API fallback logic.

Geospatial Data Ingestion & Optimization Service| *React.js, Google Maps API* | Live Demo

- Optimized a location-aware application by efficiently fetching real-time data from the Google Maps API, reducing data load times by 40% through aggressive caching and state management.

Technical Skills

CS Fundamentals: Data Structures, Algorithms, OOP, System Design

Languages: JavaScript (ES6+), Python, SQL, HTML5, CSS3

Frameworks & Libraries: React.js, Node.js, Express.js, Tailwind CSS, RESTful APIs, GraphQL

Databases: PostgreSQL, MySQL, DynamoDB, Firebase

Cloud & DevOps: AWS (Lambda, S3, RDS, EC2), Serverless Architecture, Docker, CI/CD (GitLab), Postman

Tools & Methodologies: REST API Design, OOP, VS Code, OpenAPI (Swagger)

AI & Emerging Tech: LLM Orchestration, Automation, Prompt Engineering

Certifications

AWS Certified Solutions Architect – Associate (SAA-C03)