

PABIN LUITEL

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FULL STACK SOFTWARE ENGINEER

AWS-certified Full Stack Software Engineer with 7 years of experience designing, developing, testing, and deploying scalable web applications using Node.js, React, and React Native. Skilled in backend architecture, microservices, cloud deployments, and web development, with a strong foundation in algorithms and data structures. Proven problem-solver and product designer, effective communicator, and collaborator with a growth mindset and keen attention to detail. Experienced in delivering complex, high-performance solutions that meet business needs.

- Database Design • Object Oriented Programming • Design Patterns • Microservice Architecture
- SOLID Principles • Agile Methodology • Data Structure and Algorithms • Performance Optimization

Languages: TypeScript, JavaScript

Web: Node.js, React, HTML, CSS, HTML5, CSS3

Web Services: RESTful APIs, GraphQL

Web/App Servers: Nginx

Frameworks: NestJS, Express.js, React Native, Next.js

Databases: MySQL, Postgres, MongoDB, Firestore, Redis

Design Patterns: Factory Method, Builder, Singleton, Observer, Decorator, Adapter

SDLC: Agile, SCRUM

Tools: Git, Jest, Docker, PM2, Fastlane, Firebase, CircleCI, Jira, SQL

Platforms: AWS, Firebase, GCP, Linux, MacOS, Unix

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

TAI INC., Kathmandu, Nepal • 07/2024 – 10/2024

Innovative AI and IT solutions company headquartered in Tokyo, Japan.

Senior Software Engineer

- Designed NoSQL schemas for subscription data models using NestJS, MongoDB, and Mongoose, reducing schema change overhead and enabling seamless service integration.
- Created RESTful APIs for invoicing, subscriptions, and payments with NestJS Core, EventEmitter, and Scheduler, cutting feature implementation time by 30%.
- Implemented secure authentication and authorization using JWT, bcrypt, and Passport; enforced rate limiting, input validation, secrets management, and secure connections to achieve full internal security compliance.

Technologies Used: TypeScript, JavaScript, NestJS, Node.js, MongoDB, Mongoose, Git, JWT, bcrypt.

LOGIC LAB, Lalitpur, Nepal • 03/2023 – 07/2024

Fintech startup empowering small businesses with better financial management solutions.

Senior Software Engineer / Technical Founder

- Architected a normalized PostgreSQL database schema for double-entry accounting, modeling transactions and items with Node.js and TypeORM to support compliant financial operations and audit readiness.
- Developed RESTful microservices for transactions, reporting, and financial workflows using NestJS and Redis, digitizing manual bookkeeping and reducing data entry time by 80%.
- Built web and mobile interfaces for sales, payments, and reports with React.js, React Native, Redux, and Axios, enhancing maintainability and scalability via clean separation of concerns.
- Deployed containerized backend and frontend apps on AWS (EC2, RDS, S3, CloudFront, Lambda, ECS) and mobile apps to iOS and Android stores, cutting cloud hosting costs by 40%.
- Improved reporting performance through indexed queries, cached results with Redis, and frontend optimizations like pagination and lazy loading, boosting app responsiveness by 25%.
- Implemented secure JWT, Passport, and OAuth authentication with role-based access, rate limiting, input validation, and audit logging, achieving zero critical security issues.

Technologies Used: TypeScript, JavaScript, nodejs, NestJS, React, React Native, TypeOrm, Microservices, Git, Jest, React Testing Library, Postgres, Redis, AWS, Docker, Redux.

VIRTUOSWAY, Kathmandu, Nepal • 12/2020 – 03/2023

An IT company delivering technology solutions and services to US clients.

Senior Software Engineer / Tech Lead

- Led an Agile team of 7–9 engineers to deliver an end-to-end hiring platform, managing backlog in Jira and UI/UX collaboration in Figma, boosting sprint velocity by 20%.
- Developed backend services for hire flow, background checks, and notifications with Node.js, Twilio, and Firebase, accelerating candidate hiring by 40%.
- Created responsive web and mobile features using Next.js, React.js, and React Native, improving user engagement with a unified cross-platform experience.
- Implemented automated testing with Jest, Mocha, Cypress, and enforced code quality via reviews and ESLint, reducing production bugs by 20%.
- Deployed and managed web and backend applications on Firebase and mobile apps on the App Store and Play Store using serverless Cloud Functions, Firestore, CircleCI and Fastlane accelerating release cycles by 60%.
- Optimized app performance, resolved critical issues, and ensured reliability with CI/CD and auto-scaling, doubling job search speed and improving messaging.

Technologies Used: *TypeScript, Node.js, React Native, React, Firebase, CircleCI, Fastlane, Jest, React Testing Library, Cypress, Next.js, GCP, Firestore, Redux.*

BIGO INFORMATION TECHNOLOGY, Kathmandu, Nepal • 12/2019 – 12/2020

Software company focused on web, e-commerce, and mobile app development.

Software Engineer

- Designed RESTful APIs for a School Attendance System with Node.js/Express, automating reports and saving teachers 2 hours weekly.
- Built React/React Native interfaces with offline-first, geolocation logging for 20+ schools, boosting reliability in low-connectivity areas.
- Developed POS system UI and APIs for inventory, orders, and billing, streamlining workflows and improving SEO.
- Implemented Firebase push notifications and managed iOS/Android app deployments, ensuring full compliance with platform policies.

Technologies Used: *JavaScript, React Native, React.JS, Node.js, Express.js, Git, Play Store, App Store, Material UI, Postgres, AWS, Redux.*

IMPACT LAB AND INNOVATION, Kathmandu, Nepal • 10/2017 – 12/2019

ERP startup for vehicle management, ticketing, scheduling, and business operations.

Software Engineer

- Designed database schema and built REST/GraphQL APIs for a fleet management ERP using PostgreSQL and Node.js, accelerating development and simplifying frontend data access.
- Developed responsive notifications, maintenance, transactions, and reporting features with shared React/React Native components, boosting cross-platform delivery speed and engineering efficiency.

Technologies Used: *JavaScript, React Native, React.JS, Node.js, Express.js, Git, EC2, RDS, AWS, Bootstrap, PostgreSQL.*

ACADEMIC PROJECTS**Maharishi International University (2025)**

BlogPilot: Built a full-stack Blog Management System with Node.js, Express, React.js, and Redux, enabling users to manage posts with JWT authentication and optimized backend workflows for seamless, scalable content publishing.

EDUCATION**Master of Science in Computer Science**

(In progress via distance education; expected completion 06/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: *Enterprise Applications, Algorithms, Cloud Computing*

Bachelor of Engineering in Computer Engineering

Pulchowk Campus, Institute of Engineering (IOE), Lalitpur, Nepal (10/2017)

CERTIFICATIONS

[AWS Certified Solutions Architect – Associate](#) (03/2025)