

Vijay Pandey

Technical Architect | *Bluepi*

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Google

Certified Professional

Cloud Architect

I have 11+ years of experience in the IT industry as a full stack developer and architect having expertise in Golang, p2p Protocols, NodeJs, Javascript, React, Java Spring Boot Microservices along with AWS and Google Cloud.

Overall Worked on Distributed & Decentralized Architecture, Design (*HLD & LLD*) and Development of various use cases and Products.

Worked As Cloud Architect - Google Certified Cloud Architect

Worked As Application and Data Architect - Snowflake Certified

Experience

BluePi Consulting

APRIL 2023 – Present

Architect - Data Driven Applications.

EDJX India

FEB 2020 – APRIL 2023

Lead Software Engineer, Decentralised & Distributed Technology.

GlobalLogic India

JUNE 2013 – FEB 2020

Associate Consultant, Google Certified Cloud Architect.

Skills

Golang, go kit, Blockchain, p2p, Decentralised System, Web-Assembly

Expertise in *Design*, Scaling and development of decentralised & distributed system, serverless computing runtime, decentralised storage, Raft protocol

Node, Express, Golang, React, Micro services, Java, Socket.io, WebRTC

Experience in building highly scalable real time systems using Golang, WebRTC, Node.js, Express, Redis, Core Java Spring boot, React & MEAN stack.

Artificial Intelligence, Tensorflow, Multichain, Ethereum Solidity

Worked in AI and chatbots using various frameworks

Tensorflow, support vector machines, word2vec

Also worked on Blockchain based MVP/POCs using ethereum, multichain

MicroServices, Cloud Native, Message Queues and Reactive Services

Worked In microservice architecture design and development, circuit breaker hystrix, sidecar development using nodejs, Java Spring Framework, SpringBoot, eureka, Docker compose, JMS, Active MQ, kafka connect, Redis caching, Kubernetes, Open Telemetry, Grafana Loki, aws event bridge .

MongoDB, Redis, Postgresql, Firebase, Google Cloud, AWS

Worked in various NoSQL and RDBMS Databases, AWS s3, Google Cloud functions, App engine, GCP tensorflow, Kubernetes.

Design Proprietary Custom decentralised KV and Object Storage(Files)

Projects

BluePI: RxBenefits - Pharmacy Benefits Optimizer

Role: Application Architect

Working with Industry's first technology-enabled pharmacy benefits optimizer, working to provide amazing pharmaceutical benefits to our clients.

Golang, Java Spring Boot, Datadog, Auth0, Elasticsearch, Snowflake, Postgresql, MySql, AWS Docs DB, AWS services, AWS Kinesis, Spark, Data Pipelines, Airbyte, AWS Event bridge, Kubernetes, Git workflow.

- Worked in Architecture and Design for various Enterprise Projects
- SSO Auth0 Implementation
- Custom Reporting Dashboard for brokers, agents
- Datadog Distributed tracing, logging, Metrics
- High Level Design and Low level Interfaces design Sequence and Data Flow Diagrams.
- Data Pipeline and Data ingestion.
- Migration to Elasticsearch (98% latency improved), AWS DocsDb and Application Modernisation.
- Performance tuning and optimisations.

- Data Pipelines & Ingestion: Architected and deployed complex data pipelines using AWS Kinesis, Spark, and Airbyte for real-time data ingestion and processing. Improved data flow efficiency and ensured seamless data integration across multiple platforms.
 - Custom Reporting: Developed custom reporting dashboards for brokers and agents, utilizing Datadog for distributed tracing, logging, and metrics collection. Enhanced data visibility and decision-making processes for end-users.
 - Team Leadership: Led a cross-functional team of developers, guiding them through the design and implementation of various enterprise projects. Fostered a culture of continuous improvement and innovation.
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Edjx: Serverless Decentralized Edge Computing and Storage.

Role: Lead Software Engineer

As Part of the core team at Edjx worked on design development and deployment of decentralised p2p platform for storage and edge computation runtime for serverless execution.

Golang, Nodejs, Libp2p, Open telemetry, leveldb, Badgerdb, Postgresql, Redis, caddy, coredns, google Protocol Buffers, Sqlite3, fluentd, loki, github actions, docker compose,

- Worked in Architecture and Design and Lead Development
- Rest APIs, Authentication(JWT), P2P Protocols
- Complete decentralised database and content storage with content addressing.
- Rust web-assembly based serverless function executor with edge routing capability.
- KV Database - serverless, distributed, peer-to-peer database

- *Feeds* - Metadata Database - an immutable (append-only) log with traversable history with blockchain.
 - Telemetry & Monitoring: Implemented OpenTelemetry and Grafana Loki for comprehensive system monitoring and logging. Ensured real-time visibility into system performance, aiding in proactive issue resolution and optimization efforts.
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Odigo (France): Omnichannel cloud contact center solutions.

Role: **Cloud Native Developer.**

NodeJS, ExpressJS, Java Spring boot Microservices, Socket, **Redis** storage & PubSub, Hazelcast, PostgreSQL, Google Cloud Managed Services, Cloud Migration.

- **Microservices & IAM:** Designed scalable microservices and implemented secure IAM solutions using OAuth2 and JWT.
 - **Containerization & Orchestration:** Containerized services with Docker, deploying and managing them via Kubernetes for seamless scaling.
 - Cloud Migration: Led cloud migration to Google Cloud, reducing operational costs by over 30%.
 - **Interactive Chatbot:** Developed a multilingual chatbot using Azure Bot Builder and Google Translation API, enhancing customer interactions.
 - **Real-time Processing:** Implemented Redis for efficient real-time data processing and caching, improving system performance
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Merrill Corp(London / USA).

Role: **Sr. Developer** – Development of Mobile, Desktop and Web App .

ReactJs, Electron, React Native, Redux, ExpressJS, Java Spring boot,JUnit, MongoDB, AWS S3

- Cross-Platform Development: Led the development of mobile, desktop, and web applications using ReactJS, Electron, and React Native, ensuring a seamless user experience across all platforms.
 - Document Management Assistant: Created a mobile and web-based assistant to streamline document management processes for users, enhancing productivity and efficiency.
 - Backend & Cloud Integration: Developed backend services with ExpressJS and Java Spring Boot, integrating MongoDB for data storage and AWS S3 for scalable document storage solutions.
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Globallogic Innovation Lab – Google Hyderabad, Hilti, Merrill Corp, Blockchain CoE

Innovation lab to quickly build software and POCs around new ideas and by evaluating and using new technology stacks.

Role: Lab Lead – Business understanding and solutions.

Ethereum, Multichain, ReactJS, NodeJS, Golang, Docker, Jenkins, Java 8, Spring boot, Kubernetes, Cloud, Swagger, MicroServices, Rabbit MQ, NLP(Word2Vec, SVM) Text Classification, Chatbots.

- Requirement Analysis: Led requirement gathering, use case understanding, and specification writing to align technical solutions with business goals.

- MVP & POC Development: Directed the creation of MVPs and POCs for various clients, rapidly prototyping innovative solutions using emerging technologies.
 - P2P Protocol & Decentralization: Developed peer-to-peer protocols using Golang for decentralized systems, enhancing security and efficiency.
 - Blockchain & Web3: Implemented Web3-based reward systems using Ethereum Solidity and Hyperledger Besu, driving innovation in blockchain applications.
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EduWizards (India)- Classroom whiteboard, Audio Video

Complete web based solution for eLearning classroom.

Role: **Product design & Full Stack Developer.**

ReactJS, Nodejs, MongoDB, Redis, AWS EC2, AWS S3, WebRTC, Socket.io, nodejs audio video processing ffmpeg, nodejs clustering.

Admin Panel (USA) – APAX Partners

Design and Development of Admin Panel web interface for managing portfolio and their competitor companies.

Role: **Product Design and development.**

ASP.net MVC 4, Web API, SQL server, LINQ, Entity Framework, D3, Angular.

Education

ITS engineering college

Bachelor's degree, Computer Science,
Gautam Buddh Technical University

The Army Public School

Central Board of Secondary Education.

Achievements

Edjx Global Hackathon winner (**edjxAvenger**)

GlobalLogic Hackathon Winner (Machine learning)(**Avenger**).

NASSCOM 2017 hackathon Top 10 Machine Learning.

Awarded with League Extraordinary Award Consecutively.

Consistent top performer and winner of Excellence Awards.

GOOGLE CLOUD CERTIFIED - **Professional Cloud Architect**.

Worked with Google Hyderabad team and cloud plan training.

Certification: *Architecting with Google Kubernetes Engine*.

Speaker in **Redis Lab Delhi** Event - Redis In depth.

Snowflake - **SnowPro® Core Certification**.

Led the training and formation of a highly skilled team of Go & Java developers
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