

DHANANJAY PATIL

(+91) 942 302 6654 | Pune, India | dhananjay.pict@gmail.com | [LinkedIn](#) | [LeetCode](#)

SKILLS

Programming Languages: JavaScript, Python, TypeScript, Bash

Database Technologies: MySQL, DynamoDB, PostgreSQL, Cassandra, MongoDB, ElasticSearch

Technical Skills: NodeJs, ExpressJs, Flask, NestJs, React, TypeORM, Sequelize, Chai/Mocha, Jest

Tools: Terraform, Kibana(ELK), Ethereum(Web3), Docker, RabbitMQ, AWS, GCP, Camunda, Git

Methodologies: Microservice Architecture, REST, Serverless, Agile/XP, SAFe, Test-driven Development

WORK EXPERIENCE

Globant - Pune, IN

July 21 – Present

Senior Software Engineer

Project #1: Console Connect - Billing Platform (Client: PCCW Global)

- Define the Overall Architecture and design of Billing and Subscription Platform including business logic and database model. Also Conceptualized Low Level Design, Coding and Unit / Integration Testing of software.
- Collaborated with Client on a regular basis for requirement gathering/feedback on modules developed.
- Performed Code reviews, guide, and mentor junior developers, taking an active role in assessing how processes such as deployment and testing can be optimized and improved.
- Responsible for handling & managing all phases of design, development & technical implementation.
- Suggested new feature enhancements to existing modules/new project proposals.
- **Technologies used:** NestJs, Camunda, TypeScript, Docker, React, Jest, PostgreSQL, MongoDB

Project #2: Generic UI Design System (Client: Deloitte)

- Designed and implemented essential functional components using **React** & **MaterialUI** such as Modal, Calendar, SearchBar, Tabs which can be reused across other applications.
- Undertake full responsibility to integrate and also maintain our application with Deloitte's **Concourse** CI/CD pipeline and **SonarQube** test framework, ensuring robust code quality and extensive test coverage.
- Independently developed of a comprehensive multi-package setup for our application, enabling seamless exporting and flawless utilization by other Deloitte teams.
- **Technologies used:** ReactJS, SonarQube, Jest, ConcourseCI, MaterialUI, Webpack

Project #3: Catalyst - Connected Constructions PoC (Client: Deloitte)

- Defined architecture & design of workforce & resource management solution platform to optimize the time and physical resources of partner construction companies.
- Introduced the Python **SQLAlchemy** and **Alembic** database migration framework to seamlessly handle the data model changes, while concurrently developing comprehensive unit and integration tests using the **Pytest** testing framework for the APIs.
- Conducted comprehensive code reviews to validate adherence to coding standards and guidelines, while actively contributing to critical system design and database architecture deliberations.
- **Technologies used:** Python, Flask, SQLite, PyTest, SQLAlchemy, Swagger, React

CasaOne - Bangalore, IN

Nov 20 – Jul 21

Software Engineer

- Part of the Warehouse, Inventory, and Operations Management Engineering Team. Worked on Low Level Design, Coding and Unit testing/Integration Testing of software applications.
- Independently handled end-to-end development right from requirement analysis, validating UI designs, creating DB Designs, API development, unit testing, and deployment.

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- Integrated [DispatchTrack](#) (a Last Mile Logistics Service) with CasaOne Ecosystem leveraging Adapter Design patterns and Microservice architecture.
- Worked on **Admin Dashboard** - an application for Inventory & Catalog Management
- Created and managed different services exercising event-driven architecture and Pub-Sub Pattern
- Practiced test-driven development methodologies using the **Mocha/Chai** test framework
- Deployed connection pooling and caching to optimize the filters with a sort approach that reduced the average API response time from 9-13 sec to 1-1.8 sec.
- **Technologies used:** NodeJs, ReactJs, PostgreSQL, ELK Stack, Events (AWS SQS-SNS), Terraform

TrueSparrow Systems - Pune, IN

Jun 18 – Nov 20

Software Engineer - Backend

Project #1: [Moxie Studios](#)

- Contributed to the development of an online fitness platform from scratch, actively involved in its end-to-end creation as Senior Backend Developer.
- Integrated **OAuth2.0** for Facebook and Instagram Connect, driving seamless new user signups. This impacted enhanced user experience using streamlined social media authentication.
- Worked on browser video recording and media compression using the **FFMPEG** library
- Created a real-time, in-browser chat application utilizing **WebSockets** technology, leveraging the Node socket.io library for seamless communication, and integrating **RabbitMQ** for efficient message handling.
- Led the design and implementation of a robust **Cassandra** database solution, efficiently storing and managing vast volumes of user settings, reactions, and messages. Oversaw the entire lifecycle of the Cassandra implementation, including architecture design, data modeling, and deployment.
- Wrote generic API parameter sanitization and **validation layer** of application
- **Technologies Used:** NodeJs, ExpressJs, MySQL, Cassandra, Amazon SES, AWS Lambda, Redis, RabbitMQ, Push Notifications, Socket.IO, etc.

Project #2: [Pepo](#)

- It was a Cryptocurrency-based social media mobile app where all the user interactions were tracked as transactions on the Ethereum
- Wrote a generic notification framework for emails using **AWS SES** service and for push/in-app notifications using **Google FCM**
- Actively participated in open source project: [OST Caching Layer](#) which was an NPM cache library containing 3 caching engines: Memcached, Redis and In-Process
- Developed scripts to optimize performance monitoring, error handling, and recovery mechanisms for backend services, ensuring seamless and dependable operation of vital systems.
- **Technologies Used:** NodeJs, ExpressJs, MySQL, Cassandra, Memcached, Amazon SES, RabbitMQ, Push Notifications, Socket.IO, etc.

Project #3: [OST Platform](#)

- It was a revolutionary platform for scaling the **Ethereum** with custom-made auxiliary chain contracts. Worked as a Backend Engineer in the team who developed the REST API interaction layer with Blockchains.
- Encountered and overcame various challenges in production like callback hell, Range exceptions, Async complexities & complex process handling.
- Significantly enhanced open-source projects: [OST Block Scanner](#) and [OST View](#), by delivering substantial and impactful contributions.
- Improved performance by using database sharding, parallel processing & connection pooling.
- **Technologies Used:** NodeJs, ExpressJs, Web3JS, MySQL, DynamoDB, Github, RabbitMQ, etc.

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Espressif Systems - Pune, IN

Sept 17 – June 18

Project Intern

- The senior year project, sponsored by the Semiconductor Industry Leaders - Espressif, demonstrated the ability to connect and control limited-range Bluetooth devices remotely using serverless instances
 - Integrated MQTT-based **Eclipse Paho** client with ESP32 microcontrollers through **AWS IoT**. The successful prototypal solution validated the feasibility of this approach.
 - **Technologies used:** ESP32 Micro Controller, AWS Lambda, AWS IoT, API Gateway, Python, Eclipse Paho MQTT, etc.
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COURSES & CERTIFICATIONS

- AWS Certified Solutions Architect Associate ([SAA-C02](#))
 - AWS Certified Database Specialty ([DBS-C01](#))
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EDUCATION

Narsee Monjee Institute of Management Studies (NMIMS), Mumbai

Aug 22 - May 24

Distance MBA in Information Technology and Systems Management (ITSM)

GPA 8.2

Coursework: Big data and Business Analytics, IT Security and Infra Management, Cloud Computing

Pune Institute of Computer Technology, Pune

Aug 14 - May 18

Bachelor of Computer Engineering

GPA 8.8

Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, Operating Systems