

## Shatanand Patil

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### LinkedIn:

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**GitHub:** <https://github.com/shata1729>



## Professional Summary

Enthusiastic and highly skilled Node.js developer with more than 5 years of experience in designing, developing, and deploying robust web applications and telecommunication systems. Proficient in SIP protocols, FreeSWITCH, and various JavaScript frameworks such as ExpressJS, NestJSs. Strong background in backend development, API integration, real-time communication systems, and database management including MongoDB, PostgreSQL, and MySQL.

Also have been dedicated freelance trainer with over 5 years of experience in various subjects including C, .NET, PHP, mathematics etc. for diverse audiences including computer engineering and B.Sc. IT students.

## Technical Skills

**Languages:** JavaScript, TypeScript, SQL, C.

**Frameworks:** Node.js, Express.js, NestJS, React.js, socket.io, .NET, JIRA

**Databases:** MySQL, PostgreSQL, Oracle, MongoDB

**Telecommunication Technologies:** SIP, FreeSWITCH, WebRTC

**Tools & Platforms:** Docker, AWS, Kubernetes, Git, Nginx, keycloak

**Testing:** Jest

**Other Skills:** RESTful API design, Microservices architecture, Agile methodologies, CI/CD

## Professional Experience

**Senior Software Engineer, MCLabs private limited** **Nov 2020 – Jun 2024**

<b>Project</b>	<b>LTE based Mission Critical Services (MCPTT, MCDATA and MCVideo)</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Involved in developing server support for mission critical PTT application using node JS according to 3gpp standards.</li><li>• Interact with Management to understand the requirements and clarifying the doubts.</li><li>• Reading, interpreting and implementing plug test documents provided by 3gpp standard.</li></ul>
<b>Environment</b>	Node JS, MySql, sqlite3, Git, React JS, freeswitch, drachtio SIP server.

<b>Project</b>	<b>File-server and Authentication System for MC services</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Creating File-server for storing user profile files and data where end-to-end encryption and decryption are provided for MC clients.</li> <li>• Designed and implemented archiving facilities for periodical as well as on-demand backup of data. Two factor authentication system was built for accessing the file server.</li> <li>• Handled entire end-to-end designing and implementation, testing.</li> <li>• Handling file upload and downloads using ExpressJS and S3.</li> <li>• Performing file encryption and decryption using Crypto module.</li> </ul>
<b>Environment</b>	Node JS, MySql, Sqlite3, ReactJS Git, S3.
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<b>Project</b>	<b>Geo-Fencing Feature for Calls</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Worked on adding support for calling w.r.t. Geo-fencing. Users are registered and unregistered if they cross certain geographical boundary.</li> <li>• Handled back-end designing and implementation, testing.</li> </ul>
<b>Environment</b>	Node JS, ReactJS, freeswitch, drachtio SIP server.
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<b>Project</b>	<b>Supporting single-sign-on for all mclabs services using Keycloak.</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Handled entire designing, configuration and implementation over keycloak.</li> <li>• Handling database configurations required for keycloak.</li> </ul>
<b>Environment</b>	Keycloak,MYSQL, Node JS, git
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<b>Project</b>	<b>Inventory Management System for Small Finance Bank</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Gathered and validated 40+ requirements as part of the collaboration for a IMS app that helped develop clear, unambiguous technical requirements and establish a consistent feedback loop.</li> <li>• Coordinated with product team and front end team to identify customer requirements for the IMS, and to create tech documents to streamline all activities.</li> <li>• Designing database and implement using Sequelize for POSTGRES.</li> <li>• Worked as Node JS developer for implementing various features like 2 factor authentication, access control and authorization for different types of users, developing REST APIs for all the functionalities which include email facilities</li> <li>• For file uploading, used amazon S3 bucket. Designed and developed APIs for the same.</li> </ul>
<b>Environment</b>	Node JS, postgres, sequelize, Git, React JS, Swagger, AWS S3
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<b>Project</b>	<b>QR Patrolling Generation and validation of QR codes for police patrol application.</b>
<b>Responsibilities</b>	<ul style="list-style-type: none"> <li>• Handled entire designing and implementation on server-side.</li> <li>• Handling QR code generation and validation.</li> <li>• Maintaining logs of QR code access to keep a track of whether the assigned official visits the assigned locations for patrolling.</li> <li>• Handling QR codes storage management on file-server.</li> </ul>
<b>Environment</b>	Node JS, Express JS,MYSQL.

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## Teaching Experience

### **Freelance Instructor** **Apr 2016 – Oct 2020**

- Taught Web programming, Engineering Maths as a Free Lancer
- Helped students to develop various applications based on php, .NET and node js, react js for their projects.
- Designing the course and the course material for the respective subjects.

### **Guest Faculty at Advanced Technical Institute, GoI, Mumbai** **Apr 2016 – Oct 2018**

- Taught Web programming, SQL, PL-SQL as a Free Lancer from April 2014 – April 2017
- Helped students to develop various applications based on php and .NET for their projects.

### **Guest Lecturer in SPIT, Mumbai** **Jan 2014 – Apr 2014**

- Taught C programming, Web programming, SQL, PL-SQL, Networking subjects
- Helped students to develop various applications based on Java for their projects.

### **Guest Lecturer in K.J.Somaiya College of Eng., Mumbai** **July 2010 – May 2011**

- Taught Web programming, Database, Networking, C and C++ subjects
- Conducting networking experiments using tools like wireshark.

## Education

<b>Year</b>	<b>Examination</b>	<b>University/Board</b>	<b>Institution</b>	<b>Performance</b>
2002	SSC	Maharashtra State Board	Balmohan Vidyamandir, Mumbai	92.93%
2004	HSC	Maharashtra State Board	D.G. Ruparel College, Mumbai	86.83%
2009	B.E. Computer	University of Mumbai	K.J.Somaiya, Vidyavihar, Mumbai	65.48%

2013

M.Tech. Computer

VJTI University

VJTI Mumbai

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### **Certifications**

- AWS Certified Developer Associate, passed in July 2024.

- Oracle Certified Associate

### **References**

Available upon request.

### **Personal Details**

Name – Shatanand Ravindra Patil

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Nationality: Indian

Date of Birth: 12<sup>th</sup> October, 1986