

Praveenraj Pattar



Personal Details

DOB : 29/12/1989
Gender : Male
Nationality : INDIAN
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Industry/Academic Experience

Name of Institute	Designation	Duration		Roles
		From	To	
Siemens	Research Professional	Nov 2022	Present	Research Engineer
Nonceblox	Full-Stack Developer	Dec 2021	Nov 2022	Full Stack Development (MERN)
TrakInvest	Full-Stack Developer	June 2021	Nov 2021	Full Stack Development (MEAN)
KLE Technological University, BVB Campus Hubli	Assistant Professor	July 2017	April 2021	Teaching and Research
B.V.B. College of Engineering and Technology, Hubli	Assistant Professor	August 2016	June 2017	Teaching and Research
B.V.B. College of Engineering and Technology, Hubli	Teaching Assistant	August 2015	July 2016	Teaching and Research
INTEL India Pvt, Ltd. Bangalore	Intern	July 2013	October 2014	Development

Technical Knowledge

- HTML5, CSS3, Bootstrap, JavaScript, Typescript
- Angular, ReactJS
- NodeJS, NestJS, SQL(PostgreSQL), Non-SQL(MongoDB)
- Micro Service (RabbitMQ, Spring-boot, AWS SQS)
- C, Java, Python, SQL/MySQL, No-SQL/MongoDB
- GitHub, Bitbucket, JIRA, ASANA.

Projects

Project Title	Description
Crypto Exchange	<p><u>Definition:</u> To exchange the crypto between the costumers.</p> <p>Explanation: Here I have used ReactJS to develop the frontend. Used the NodeJS as backend. Here the main functionality was list the cryptocurrencies and exchange by selling and buying. Here when user logs into the system, first he verified with 2FA for the mobile and email. Once both gets verified then user need to submit KYC documents to validate the person's authentication. Once KYC documents are verified by admin them, he is allowed for transactions. To make transactions we he need to put in the bank details. Again bank details are verified and approved by admin. Once all the approval process gets completed then, customer is allowed to deposit the minimal amount into the wallet, then start making exchanges. Exchanges are allowed only when sufficient balance is in wallet or buying crypto is in lesser value than in the wallet balance, else not allowed to buy. Unique Wallet Generation happens and then associated crypto can be deposited to that wallet address. In this BTC, LTC, ETH, USDT(tether), MATIC have been supported. In this EVM chain based ERC20 Tokens are also supported. The crypto exchanges were supported by another service for which API request were made and then brought/sold the crypto.</p>
Code Assessment Platform(CAP)	<p><u>Definition:</u> To demonstrate, Integrated Development Environment that contains all the necessary tools for developing computer programs and supports different programming languages.</p> <p><u>Explanation:</u> I have used Angular for frontend to display the content. Before proceeding into solving a problem, user has to login, which is taken care by JWT login along with Social login. New user's details are maintained in AWS Cognito User Pool. New signup will have to verify through email and other details for verification. Once verified, the request from user's API is going through API GATEWAY using socket.io for connecting to services. User then selects the problem to solve, then chooses the language to code. Here moncao editor is integrated to write the program. Once user completes writing the code, can check the logic of code against trivial test cases. Once he/she feels fine submits the code. Submitted code is review against hidden test cases to verify meeting all requirement of the defined problem statement. Submitted code is passed to RabbitMQ platform as part of micro-service implementation to broadcast to CAP platform to verification. Once code is verified from CAP platform it sends the result to user.</p>

Enterprise Platform	<p><u>Definition:</u> Enterprise Platform Development for allowing multiple tenants to store multiple applications with multiple user's details.</p> <p><u>Explanation:</u> I have used AngularJS for frontend to display the content NESTJs for the backend and postgres database to store the details. Before proceeding into platform, tenant has to login, which is taken care by JWT login along with optional Social login. New tenant's details are maintained in AWS Cognito User Pool. New signup will have to verify through email and other details for verification. Once verified, the request from user's API is going through API GATEWAY for connecting to services. Tenant then selects the users who get registered through applications launched by tenants. User has particular role, whether as site admin or client admin or client employees and so on.</p>
Players Management	<p><u>Definition:</u> To demonstrate the player's information.</p> <p><u>Explanation:</u> I have used Angular for frontend to display the content. Before proceeding into solving a problem, user has to login, which is taken care by Social login or user signup. New user's details are maintained in postgres's database. Once verified, the request from user's API is going through API GATEWAY using socket.io for connecting to services. User then selects the player to view details. User also has provision to add new player details against the fields mentioned. New record is to passed to RabbitMQ micro-service to establish connection to the database to store the details. Once user completes adding new player details, can look up in the displayed list using pagination technique. User can edit the newly added player details in-case some changes required. He/she has provision to delete the player from the displayed list.</p>

Thesis's Details

Master of Technology (M.Tech) in Computer Science and Engineering

Thesis Title : Sandalwood Tree Protection Using Bluetooth version 4.0 Technology

College : B.M.S. College of Engineering, Bangalore-560 019

University : Visvesvaraya Technological University, Belgaum-590 014

Year : 2015

Class : First Class with Distinction

Project Guide : Dr G Varaprasad

Bachelors of Engineering (B.E) in Information Science and Engineering

Thesis Title : Infrastructure service automation from cloud (ISA4C)
College : University Visvesvaraya College of Engineering, Bangalore-560001
University : Bangalore University, Bangalore-560056
Year : 2012
Class : First Class
Project Guide : Mr. Kiran K

Academic Details

Course	Branch	Institution	University / Board	Year of Passing	Class
M.Tech	Computer Science and Engineering	B.M.S. College of Engineering, Bangalore.	VTU	2015	Distinction
B.E	Information Science and Engineering	University Visvesvaraya College of Engineering, Bangalore.	Bangalore University	2012	First
12th	Science	Sainik School Bijapur.	CBSE	2007	First
10th	General	Sainik School Bijapur.	CBSE	2005	First

List of Copyrights

Granted:

- Pawnish R., Raman K., Ravikumar S., Sathayanarayana H.G., Shruti Pooja S., **Praveenraj Pattar**, Santosh Hebbar, Varaprasad G., "*Automated Physical Protection for Automatic Teller Machines to Prevent Against Cash Box Thefts*", India, 08/10/2014, **Diary Number:** 51818/2014-CO/L, **Registration Number:** L-59851/2014. **INDIA.**

Registered:

- Santhosh Hebbar, **Praveenraj Pattar.**, Varaprasad G., "*Implementing Mobile ZigBee Module in Traffic Control System to Clear Way for Ambulance*", India, 2014, **Diary Number:** 46726/2014-CO/SW. **INDIA.**

- Rajeshwari Madli, Santosh Hebbar, **Praveenraj Pattar**, Varaprasad Golla, "*Automatic Detection and Notification of Potholes and Humps on Roads to Aid Drivers*", India, 2015, **Diary Number:** 409/2015-CO/L. **INDIA.**
- Varaprasad Golla, **Praveenraj Pattar**, Rajeshwari Madli and Santosh Hebbar, "*Sandalwood tree Protection Using Bluetooth Version 4.0*", India, 2015, **Diary Number:** 3384/2015-CO/L. **INDIA.**

List of Funded Projects/Grants

Title	: Automatic Detection and Notification of Humps on Roads to Aid Drivers
Organisation	: Vision Group on Science and Technology (VGST), Govt. of Karnataka, India.
Ref. number	: VGST/TRIP-108/2014-15 Dated: 03-03-2015.
Started on	: March 2015.
Duration	: 5 Months.
Amount	: ₹ 30,000/-
Status	: Completed

List of Publications

- Rajeshwari M, Santhosh Hebbar, **Praveenraj Pattar** "*Automatic Detection and Notification of Potholes and Humps on Roads to Aid Drivers*" **Sensor Journal, IEEE**, Vol. 15, No.8, pp. 4313-4318, 2015, **DOI:** 10.1109/JSEN.2015.2417579, **Impact Factor: 1.852.**
- Santhosh Hebbar, **Praveenraj Pattar**, Varaprasad G., "*A Mobile ZigBee Module in Traffic Control System*", in **Potentials, IEEE**, vol. 35, no. 1, pp. 19-23, Jan-Feb 2016. **DOI:** 10.1109/MPOT.2014.2341331
- Hebbar, Santhosh; **Pattar, Praveenraj**; Madli, Rajeshwari; Golla, Varaprasad, "*Sandalwood tree protection using Bluetooth version 4.0*" in , **International Conference on Computing and Network Communications (CoCoNet)**,pp.620-626,16-19Dec.2015
DOI:10.1109/CoCoNet.2015.7411253
- G.P. Rajesh, **P. Pattar**, M.N. Divya and V. Prasad, "Near field application: NFC Smart Board", **International Conference on Wireless and Optical Communications Networks (WOCN)**, pp.1-5, 21-23 July 2016.
DOI: 10.1109/WOCN.2016.7759887
- G.H Joshi Vidya Handur , Priyadarshini D Kalwad , Mahesh S Patil , Vishwanath G Garagad , Nagaratna Yeligar , **Praveenraj Pattar** , Deepak Mehta , Preethi Baligar "*Integrating Class and Laboratory with Hands-on Programming: Its Benefits and Challenges*", **4th International**

Conference on MOOCs, Innovation and Technology in Education (MITE), pp 163-168, 2016. **DOI:** 10.1109/MITE.2016.041

Courses taught

- Programming in C
- Engineering Design
- Software Testing
- Social Innovation
- Data structures with C

List of Certificates

1	Title	State Eligibility Test (SET) for Lecturer / Assistant Professorship in Computer Science and Applications
	Issuer	Karnataka State Eligibility Test Center (KSET)
	Roll No	15240263 Dated: 31/12/2017
2	Title	Fundamentals of Deep Learning for Computer Vision
	Issuer	Deep Learning Institute
	Dated	13-Aug-2018
3	Title	Machine Learning with MATLAB
	Issuer	Mathworks Inc
	Dated	09-Mar-2019

Professional Skills

- Good communication skills
- Good analytical skills.
- Ability to learn new things quickly.
- Flexible to any environment.

Curricular Activities

- Attended 12 Day TEQIP Sponsored Workshop on "**Fundamentals of Machine Learning**" conducted at KLE Technological University, Hubballi in Collaboration School of Mechanical Engineering and School of Computer Science and Engineering during 17th June to 29th June 2019.
- Attended 6 Day TEQIP Sponsored Workshop on "**Python Programming**" conducted at KLE Technological University, Hubballi in Collaboration School of Mechanical Engineering and School of Computer Science and Engineering during 10th June to 15th June 2019.

- Conducted Workshop on "**Python**" at Ramgarh Engineering College, Murubanda, Jharkhand from 18th July to 20th July 2019.
- Attended workshop on "**Hands-on Workshop on Internet of Things**" conducted at KLE Technological University, Hubballi in Collaboration with IoTHive, IEEE Computer Society during 06th Jan to 07th Jan 2018.
- Attended workshop on "**Machine Learning**" conducted at CSI Mumbai Chapter, Mumbai during 16th June to 17th June 2017.
- Attended workshop on "**Integral Transforms and Differential Equations in Engineering Applications**" conducted at B.V.B. College of Engineering and Technology, Hubballi sponsored with TEQIP-II during 06th March to 07th March 2017
- Attended workshop on "**Machine Learning with Python**" conducted at B.V.B. College of Engineering and Technology, Hubballi sponsored with TEQIP-II during 03th March to 05th March 2017.
- Attended workshop on "**Internet of Things**" conducted at B.V.B. College of Engineering and Technology, Hubballi sponsored with TEQIP-II during 13th May to 14th May 2016.
- Attended workshop on "**Cloud Computing**" delivered by Innovians Technologies (India) and conducted at B.V.B. College of Engineering and Technology, Hubballi during 11th May to 12th May 2016.
- Attended workshop on "**Big Data and Hadoop**" conducted at B.V.B. College of Engineering and Technology, Hubballi during 04th February to 7th February 2016.
- Attended workshop on "**Python Programming Fundamentals**" conducted at Nitte Meenakshi Institute of Technology, Bangalore sponsored with TEQIP-II grants in association with Infosys Campus Connect Train the Trainer Program during 04th January to 6th January 2016.
- Attended workshop on "**Cloud Computing Tools**" conducted at Thaigarajar College of Engineering, Madurai sponsored with TEQIP-II grants during 15th October to 18th October 2015.
- Attended workshop on "**Implementation Issues of IPv4 and IPv6**" conducted at B.M.S College of Engineering sponsored with TEQIP-II grants during 23rd September to 29th September 2013.
- NCC "B" Certificate holder dated 09/04/2007.
- Zonal level Football and Volleyball player during 2003 and 2005 respectively.

Contact

Home

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Karnataka, India.