

Harpal Singh

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SKILLS

BACK END DEVELOPMENT | NodeJs, Express, Javascript, TypeScript, GoLang, Bun, NextJs, Python, Fast API, PHP,

FRONT END DEVELOPMENT | ReactJs, Vue, HTML, CSS3, Bootstrap, Redux, JaiJs

DATABASE | MongoDB, MySql, SQL, NoSQL, Firebase, Postgresql, S3, Aws DocumentDB, YAML

MISCELLANEOUS | Amazon AWS, Linux/Ubuntu, Nginx, Apache2, DNS, Server Setup, CI/CD, Docker, WebSocket

TOOLS | Github, Git, Gitlab, SoapUI, Postman, Pm2,, Cpanel, RabbitMQ, CSS3, Jest, Aws lambda

Frameworks | ExpressJs, Fast API, Hapi.js, Webpack, React, Vue, JQuery, Jai, Eslint, Jest, Mocha, Chai, socket.io

Platforms | Linux, Ubuntu, Mac Unix, Microsoft Windows, AWS, Apache, Vultr, Digital Ocean

PROGRAMMING LANGUAGES | Javascript, Node.js, Python, PHP

SOFT SKILLS | Team Player, Responsible, Deliver results, Bias for action, Project Management Skills

Work Experience

Orange Power Limited UK

Senior Software Engineer

United Kingdom (Remote from India)

Oct 2022 – Present

- Built Referral System and Automated it, *helped the company to grow its user base by 5X*
- Managed team of 8
- Added Unit test cases and API test cases using Jest / Mocha, reduced bugs and frequent app crashes
- Implemented GitHub workflows for Test cases and Eslint
- Created more than 30+ secured Rest APIs using Typescript, Golang,, Webhooks and integrated third-party APIs (National Grid, MyEnergy, N3rgy)
- Implemented LOG system to trace unknown error, helped us to fix more than 20+ unknown exceptions
- **Created ADMIN Frontend user Interface using React**
- Automated PDF scanning and address approval using AI, *which saved daily 4 hours of manual work*
- Setupted MQTT
- Implemented Automatic Calculation of User Energy Points, creating Baseline, metering, and rewards Algorithm
- Fixed App Crash and automatic restart on Exception
- Implemented User metrics for admin, and User Approval/Rejection/Re-Submits by Admin
- AWS S3 automatic user file management, put signed url for upload, get pre-signed S3 file url to download
- Refactored Existing Code, and added API docs, *which improved productivity by 60%*
- Fixed untraced Security bugs
- Automated Metering, Baseline and Points calculation Process, made it even faster using Multi threading, *Earlier it Was Manual + Computer Process and takes one week to do it all, reduced it to just 10 Minutes and all Automated.*
- AWS server setup and Management, Domain and subdomain setup

Primus Software Corporation

Software Engineer - (WeGoLook)

Noida, India

June 2021– Oct 2022

- Created more than 100+ REST APIs for the backend, implemented JWT authentication, auth0, etc
- Built new microservices from scratch, implemented system design and architecture
- Added functionalities to existing services, writing unit test cases, and API test cases with 85% coverage
- Fixed bugs in the code & Integrated Third-party APIs (Hover API, Lyft, Fountain API) to microservices in the backend
- Updated Legacy code and Migrated one of the largest Microservice code bases to new updated technology

HumanCloud Technologies
Software Engineer - Full Stack

Pune, India
April 2021–June 2021

- Emrit.io: Implemented Multi-factor Authentication, fixed bugs
- UK-based client Proj (Defytech.com): Created a complete Web application from scratch using Typescript + vue.js

Koddn Technologies
Software Engineer - Full Stack

Jalandhar, India
August 2018–March 2021

- **Wavex.in:** Developed & customize the Shopify Theme, developed custom Pages, multi-cart, and bulk order pages, improved UX/UI, etc, and did search engine optimization (SEO)
- **MDG FOODS LTD (UK):** Custom eCommerce website from scratch, ux ui design
- Dtechy.com: Full Website design frontend, AI search implemented, Products Comparisons, Improved page load time, improved website SEO
- **Koden JS:** a reactive javascript client-side scripting frontend framework similar to vue.js/ react.js, Angular Js(increased work efficiency to 400%)
- **Koden CMS: (in-house product) Developed and designed full fledged CMS, frontend UX/ UI design, increased page speed by almost 5x faster than traditional CMS, Handled a team of 5, implemented JWT tokens and cookies based auth**
- **Managed and Lead team of 11**
- Custom Themes for Wordpress using HTML, CSS, PHP
- SERVER SETUP in CLOUD

Projects (Open Source)

- **Task Manager:** To do List manager API using Node.js ([Link](#)), Front end using React.js ([Link](#))
- **Jai.js:** Jai.js Full Stack Node.js Interactive Framework with client side UI & server-side rendering, Routes: Event Binding, JSX support. Fast Rendering, Server side rendering, Reduced page load time by 35%, 40% less code
- **Python Image Editor:** GUI-based Desktop Application built using Python, Features: view images, rotate, edit, rename, flip, add text to images, resize images, add watermark, image overlays, etc ([Link](#))
- **Php Router:** Fast PHP URL router with middleware functions and params capture, 66% less code, and 1.5X more maintainability
- **11+ NPM packages published:** [Link](#)

Education

Punjab Technical University
Master's of Computer Applications (concentration: Computer and Software)
Punjab Technical University
Bachelor of Computer Applications (concentration: Computer and Software)

Jalandhar, India
May 2019
Jalandhar, India
May 2017

Achievement/ Rewards

Logic Testing Programming, DSA (2nd)
Computer Vision Content Programming (1st)
Programming Skills for Data Structures and Algorithms (1st) Inter College
Clash of Brains (3rd) Inter-College Competition
IT Quiz (2nd) Inter-College Competition
Volleyball Boys (1st) SPORTS

2015, Jalandhar
2016, Jalandhar
2017, Jalandhar
2017, Amritsar
2017, Jalandhar
2018, Jalandhar

