

Harshkumar Patel - Software Engineer | +44 7587 960737 | Plaistow, UK - E13 9JF

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Experienced Software Engineer with over **4 years of expertise**, renowned for delivering innovative e-learning solutions to global institutions. Specializing in crafting high-performance **web and mobile applications**, showcasing versatility across diverse technologies. Eager to leverage my **Full Stack Development** skills to drive impactful projects, making people's lives easier and more efficient through the power of technology.

SKILLS

Frontend: **Angular, ReactJS, NextJS, JavaScript, TypeScript, Flutter, Express.js**, Phaser, HTML5, CSS3/SCSS

Backend: **NodeJS, .NET Core & Framework, Python, C#, PHP** (Codelgniter), C++

Database: **PostgreSQL**, Snowflake, **ElasticSearch, Redis, MongoDB**, Firebase, MySQL

Cloud Services: **S3, Serverless Lambda**, EventBridge, **QuickSight**, CloudWatch, SQS

DevOps: **Docker, Jenkins**, Kafka, CI/CD, Linux, **GitHub Actions**, Shell, Groovy

Version Control & Project Management: **GIT, GitLab**, Git Extension, **Rally**, Redmine

PROFESSIONAL EXPERIENCE

Loppis - Buy & Sell

2 years 9 months | 05/2021 - Present

Flutter Developer - Full Stack Developer (Freelancer)

Sweden (Remote)

- Implemented a Refer and Earn system, seamlessly integrated **Firebase SDK** into Admin Portal, and elevated UI experience by adding new features to the application.
- Revolutionized user communication through **SendGrid** integration, expertly tackled complex challenges, and implemented **real-time chat** functionality, **push notification**, state management using **blob**, and **providers**.
- Built a **Node.js** REST APIs backend using **Express.js**, featuring automated deployment through **GitLab**.
- <https://loppis.app/>
- [Link to App on Play Store](https://play.google.com/store/apps/details?id=app.loppis.android) (<https://play.google.com/store/apps/details?id=app.loppis.android>)
- [Link to App Store](https://apps.apple.com/app/loppis/id1493985022) (<https://apps.apple.com/app/loppis/id1493985022>)

Zeus Learning Pvt. Ltd.

4 Years | 01/2020 - 01/2024

Senior Software Engineer - Full Stack Developer

Mumbai, India

- Enhanced overall system security by implementing robust measures, including JWT Authorization headers, and a CSP, resulting in a 100% improvement in **API security** and mitigating XSS and data injection threats.
- Utilizing **Pinecone** and **OpenAI**, I developed an NLP model for Semantic Search. Revolutionizing search capabilities with accurate and personalized results, and enhancing user satisfaction using **Python** and **Node.js**.
- Boosted user engagement by **20%** through seamless **integration of third-party learning tools** like **LTI Canvas, OpenAthens, Blackboard, D2L, Schoology**, and **ClassLink**, enabling diversified **IDP** login options.
- Realized 40% efficiency gains by leveraging **Jenkins, Ansible**, and BI tools like **QuickSight** for streamlined automation and insightful analytics. Created an **automation pipeline** to migrate the QuickSight artifacts.
- Utilized **Matillion ETL** to efficiently refresh data from the **AWS firehose** within the **Snowflake** environment.
- Played a pivotal role in driving **Agile-driven** development of new features using **Angular, React, NextJs, .NET**, and **Node.js** leading to a **90%** increase in app **responsiveness** and adherence to WCAG AA level **accessibility** standards. Conducting **code reviews**, **accepting MR** and taking **follow-ups**, and **mentoring** junior developers.
- Enhanced user satisfaction by comprehensive **automated testing** using **Selenium, Cucumber, Unit Testing** using **JEST**, and **load testing** using **Apache JMeter**, resulting in an **optimized** user experience.
- <https://www.learningexpresshub.com/>
- <https://www.gradprep.com/>
- <https://financialfit.com/>

Mahadev Film's Home Production

2 Months | 10/2019 - 12/2019

Android App Developer (Intern)

Odisha, India (Remote)

- Engineered an innovative app empowering rural theaters with digitalization, yielding a remarkable **40% surge in revenue within six months**.
- Seamlessly facilitated ticket booking for users, integrating **Google Map SDK** and multiple **payment gateways** (Paytm, RazorPay, GooglePay).
- Firebase **authentication, database, and file storage** ensured secure operations, while the introduction of a tailored interface for theater owners optimally streamlined management and boosted customer satisfaction.

GosoTek Technology Pvt Ltd

2 Months | 05/2019 - 07/2019

Android App Developer (Intern)

Bhopal, India (Remote)

- Created 'QRHazri' and 'Attendance Taker' applications, revolutionizing student and teacher workflows by seamlessly replacing cumbersome paperwork with efficient digital solutions. Developed using **Android Studio**, these apps incorporate advanced features such as QR code scanning, Excel report generation, and more.
- These innovations provide teachers with a user-friendly platform to effortlessly manage diverse tasks, significantly enhancing productivity and time savings.

PROJECTS

Teaching Strategies SFDA - (DSA player) | ReactJS, NextJS, Redux, Phaser, Filezilla, etc.

Associated with **Zeus Learning Pvt. Ltd.**

- Contributed to the DSA (Digital Student Assessment) platform, evaluating skills of Kindergarten to 3rd-grade students in key areas like pronunciation, reading, listening, and math.
- Designed engaging assessment tasks with interactive animations like MCQ, Drag-and-Drop, and more, offering a comprehensive evaluation of students' abilities and enhancing their learning journey.

Stock & Expense Manager Application | Flutter, Firebase, etc.

- Designed and built a comprehensive app for a local client, featuring customized functionalities like QR code scanning and generation, PDF and Excel report generation, to streamline stock and expense management.

Medicine Inventory - Yogi Clinic Application | ReactNative, Firebase, Expo, etc.

- Crafted a user-friendly medical store app that sends timely notifications before medicine expires, streamlines organizing expired medicine data and offers seamless search and filtering options for enhanced user convenience.

Medical Records Management - PSM Aarogya Web App | ReactJS, AntDesign, Firebase, etc

- Seamlessly stores and manages patient data, enables efficient historical search, streamlines patient flow, and generates comprehensive reports with user-friendly login and registration features.
- <https://psm-aarogya.web.app>

Portfolio Website - <https://harsh13799.github.io/> | Github Action, HTML, CSS, etc

- Created a portfolio website with HTML and CSS, and used GitHub Actions to automate deployment.

EDUCATION

Gujarat Technological University | Gujarat, India

06/2016 - 05/2020

Bachelor of Engineering in **Information Technology**

CGPA: **8.61/10**