

# Rupak Acharya

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## INTRODUCTION

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I am a versatile Full Stack Web Developer with 4+ years of experience, specializing in React, Next.js, and Node.js for frontend and backend development. Proficient in JavaScript, Python, and Golang, I have a proven track record of enhancing application performance and user engagement. My experience in Web3 and smart contract development, coupled with expertise in machine learning, demonstrates a broad technical skill set. As a passionate problem-solver and flexible nomad, I am committed to leveraging my diverse skills to create innovative, scalable web solutions while fostering cross-functional collaboration and contributing to team-building initiatives.

## WORK HISTORY

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### Neptune Mutual

Jan 2022 – Jun 2024

Frontend & Blockchain Developer

Remote

- Led the development of a production-grade, web3-based cryptocurrency insurance platform using React.js and Next.js, improving user engagement.
- Architected and implemented robust, modular components enhancing scalability and performance, utilizing both server-side rendering (SSR) and client-side rendering (CSR) strategies.
- Collaborated with cross-functional teams to execute the product roadmap, delivering customer-facing features and optimizing the Single Page Application (SPA) architecture.
- Implemented state management solutions using Redux and Context API, optimizing data flow and reducing component re-renders by 30%.
- Improved test coverage by implementing unit tests, integration tests, and end-to-end (E2E) tests using Jest and Playwright.
- Maintained externally shared packages and libraries, promoting code reusability and facilitating seamless deployments across projects.

### Infinity Digital Agency (IDA)

Jul 2021 – Dec 2021

Full-stack Developer

Ratopul, Kathmandu

- Developed and maintained dynamic React.js applications, leveraging Next.js for improved SEO and performance, resulting in a 50% increase in Lighthouse scores.
- Designed and implemented robust RESTful APIs using Node.js and Express.js, integrating with PostgreSQL databases through Prisma ORM, showcasing full-stack capabilities and improving overall application efficiency.
- Utilized TypeScript and implemented Progressive Web App (PWA) features to enhance code quality and user experience across devices.
- Created comprehensive API documentation using Swagger, facilitating seamless integration and collaboration between frontend and backend teams.
- Employed Postman for thorough API testing and debugging, ensuring reliable communication between client-side and server-side components.

### Berrybytes

Apr 2020 - Jul 2021

Frontend Developer

Pulchowk, Lalitpur

- Developed and optimized React core components, focusing on reusability and performance. Integrated these components with backend APIs to create seamless user experiences, resulting in an improvement in application load times.
- Implemented responsive designs using CSS3 and SCSS, ensuring cross-browser compatibility through extensive

testing. Achieved a 40% increase in mobile user engagement through improved responsiveness and accessibility.

- Conducted in-depth research on JAMStack, exploring Hugo, Gatsby, and Strapi headless CMS. Implemented findings to improve SEO, resulting in a 30% increase in organic traffic.
- Led the adoption of best code practices, including component optimization techniques and comprehensive documentation, improving team efficiency and code maintainability.
- Collaborated with backend developers to design and implement RESTful endpoints using Golang and the Gin framework, enhancing overall application performance and API response times by 20%.

## SKILLS

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**Frontend:** HTML5, CSS3, JavaScript(ES6+), ReactJS, NextJS, Gatsby, AstroJS, TypeScript, Jest, SCSS, Styled Components, Tailwind CSS, Figma, E2E Testing(Jest, Cypress)

**Backend, API & Hosting:** Node.js, Express.js, Python, Flask, Golang, Gin, Swagger, Postman, MongoDB, PostgreSQL, AWS, Azure, Cloudflare, SQL, NoSQL, GraphQL, REST, Cron Jobs

**Web3 & Blockchain:** Solidity, Hardhat, Mocha, Chai, IPFS, Kubo, Ethers.js, Web3.js

**Machine Learning & AI:** Scikit-learn, Keras, TensorFlow, Pandas, Matplotlib, Regression, KNN, Support Vector Machines, CNN

**Linux and other essential skills:** Linux, MacOS, Windows, Docker, Shell Scripting, Git, GitHub, GitLab, Bitbucket, Remote Work, Teamwork, Quick Learning

## OPEN SOURCE CONTRIBUTIONS

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- Contributed to Neptune Mutual, enhancing the organization's open-source projects related to decentralized insurance solutions. <https://github.com/neptune-mutual-blue>
- Actively participated in the development of Station DEX, contributing to decentralized exchange infrastructure and improving user experiences. <https://github.com/station-dex>
- Made contributions to github-file-icons, chrome extension to give icons to files in Github UI. <https://github.com/homerchen19/github-file-icons>

## EDUCATION

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**Malla Reddy College of Engineering & Technology (Affiliated with JNTUH)**

*B.Tech in Computer Science & Engineering*

**Jan 2020**

*Hyderabad, India*

- B.Tech in Computer Science & Engineering Hyderabad, India

**Kalika H.S.S**

*Intermediate Degree, Science*

**Mar 2016**

*Butwal, Nepal*

- Obtained the Intermediate Degree in the Science stream

**Axis International School**

*SLC*

**Aug 2014**

*Butwal, Nepal*

- Acquired the School Leaving Certificate(SLC)

## CERTIFICATIONS

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**Full-Stack JavaScript Developer, IBM**

**Aug 2021**

- Mastered full-stack web development using JavaScript, Node.js, Express, and React

**Introduction To Tensorflow In Python, Datacamp**

**May 2020**

- Gained proficiency in TensorFlow for building perceptron layers and CNNs

- Mastered regression, KNN, and support vector machines