

Avinash Mishra

Lead Engineer

Summary

Forward-thinking professional offering more than 6 years of experience working in fast-paced technology environments. Results-oriented with superior problem-solving and critical thinking skills, meticulous attention to detail, and systematic nature. Skilled in tackling problems in unique ways to develop innovative solutions.

Technical Skills

Languages and Scripts: NodeJS, Javascript, TypeScript, Java, Kotlin, Python, PHP, C#, HTML5, CSS3

Frameworks and Libraries: ReactJS, VueJS, ExpressJS, NextJS, NestJS, Redux, Laravel, Jetpack Compose

UI Frameworks: Ant Design, Bootstrap, Material-UI, Semantic UI, Tailwind

Database: MongoDB, MySQL, PostgreSQL

Serverless: Firebase, AWS Lambda

VCS: Git, Github, Gitlab, CodeCommit

Data: ElasticSearch, OpenSearch, Redis

AWS services: EC2, S3, RDS, ElasticCache, Cloudwatch, SQS, SNS, MSK, Route53, Amplify, MediaConvert

Pipeline: Jenkins CI/CD, GitHub Actions, GitLab CI/CD

Server: Linux, Nginx, Apache, Lets Encrypt

Containerization and orchestration: Docker, Kubernetes

Architecture: Microservices, Microfrontends

Blockchain: Web3, Solidity, Ethereum, ERC20, Hardhat

Infrastructure: Terraform

Collaboration: JIRA, Trello, Kanban flow, Slack

Agile Frameworks: Scrum, Kanban

Professional Experience

Lead Engineer (October 2021 - Present)

- Lead the design, development, and implementation of Microservices and products on an augmented team
- Lead the infrastructure and architecture decisions and implementations for my current project

- Optimize the current ETL architecture to increase the speed by over 300%, resulting in snapshots completed in 4 days compared to 21 days.
- Mentor existing team members to implement Microfrontends as well as assist them in AI implementations by better prompt engineering and use of AI APIs such as OpenAI GPT
- Facilitate and moderate coding standards, and guidelines and monitor the overall technical debt of the project
- Mentor and train other software engineers within the company on various technical and Scrum-related knowledge bases
- Design UI components and frontend using VueJS
- Build software and services based on Microservices and Microfrontends
- Designing and developing business logic using REST APIs in Loopback and NestJS
- Build and contribute in ETL by using Debezium, NestJS, and OpenSearch (ElasticSearch)
- Involve in microservices architecture using Kubernetes, KrakenD, and Terraform
- Refactoring, debugging, testing, and implementing changes to existing applications to meet project requirements
- Writing unit tests for maintaining code integrity

Program Manager (March 2021 - October 2021)

- Create SCRUM and Kanban boards as project management methodological tools to keep track of the projects running as well as keep a backlog for future tasks to be segregated between the team members.
- Assist clients and stakeholders in creating visualized projections, roadmaps, and scope of the projects they are involved in.
- Involve in staffing and resource management
- Create mind maps and technical wireframes during the analysis and planning phase of a project.
- Define scope, schedules as well as estimations for time and budget required for a project to go from A-Z.
- Create documentation and allocate resources during various parts of the software development life-cycle.
- Assist the development team when it comes to full-stack development and DevOps.

Fullstack Engineer (August 2020 - April 2021)

- Create highly scaled, responsive, and interactive web applications using the MERN stack (MongoDB, ExpressJS, ReactJS, NodeJS) as well as templating engines like EJS.
- Maintain and optimize existing applications running in the company's portfolio to ensure it is production-ready.
- Assist other mid-level developers in the team to create production-ready, TDD-applied applications both in the front-end (ReactJS) department and back-end department (Python/Django and NodeJS).
- Integrate industry-standard email services for existing software using services like AWS SES and Alibaba Cloud Direct Mail Service

- Migrate a high-traffic e-commerce application running in the company hosted on AWS EC2 to Alibaba Cloud (ECS) as part of a business requirement by the client with minimum downtime to prevent loss of orders.
- Set up CI/CD for the existing projects in the company using Jenkins and GitHub Actions.
- Set up production environments for the projects in the company by setting up instances on AWS and configuring web servers using Nginx for React, Node, and Python applications.
- Introduce the use of additional services of AWS to improve the development and business environment of the company such as Route53 for DNS management, S3 for data storage instead of serving static files, RDS for decoupling DBMS concerns, and easy backups.
- Take on the role of project management and directly communicate with the clients and stakeholders to create SRS documents, create user stories based on the requirements gathered, create a healthy timeline, and maintain the Jira board.
- Communicate directly with the management team to bring about improvisations in the team such as designing a Daily Tasker board on Clickup to track everyone's daily progress as well as improve the Jira boards (e.g. Create meaningful EPICs and Components)

Frontend Engineer (August 2019 - July 2020)

- Building data-oriented web applications that have been working as financial applications for different business houses and NGOs/INGOs.
- Improved upon an existing web application on the HRMIS domain and helped migrate it to ReactJS to meet modern standards when it comes to design, performance, and better user experience.
- Helped the team understand and work with the client's various requirements and ensured a bug-free application through rigorous testing and applying TDD (Test Driven Development)
- Led and assisted junior front-end developers in the team in building a responsive, powerful application while ensuring important deadlines were kept in check.
- Helped improve the data flow mechanism between front-end and back-end through quality discussions and potential improvement suggestions that are helping our applications excel in industry standards.

Frontend Developer (ReactJS) (February 2020 - December 2020)

- Building next-gen user-oriented products on domains like hotel booking, hotel management systems, POS, and Business Intelligence.
- Manage and lead the frontend department to ensure proper development, review, and improvement of infyTrip, an in-house project.
- Constantly contributing to improving the software development practices and team management strategies applied within the company by being a part of reoccurring team discussions, Sprint reviews, and collaborations.
- Helping the management team to ensure proper testing, deployment, and resolving server-side issues on the production side of the projects.
- Improving the SEO, performance, and load times of the projects on the front-end side to ensure better reach and a convenient user experience.

Blockchain Engineer (July 2018 - August 2019)

- Built detailed web applications that worked as a dice game and SPA using React.JS and Vue. JS.
- Create blockchain applications using Solidity on the Tron blockchain network
- Integrated the front-end application with the blockchain back-end using TronWeb APIs and extensions.
- Implemented complex algorithms and security mechanisms that helped our application work flawlessly with a secure back-end system. Functional and monkey testing proved that the system could not be compromised even using deep-linked exploitation methods.
- Worked on improving the platform, fixing minor bugs working closely with the backend team.
- Experience with building and implementing APIs on Node. JS/MongoDB and PHP/SQL.
- Experience with implementing Google AdSense, third-party Ad services as well as suitable user-acquisition practices.

Android Developer (August 2018 - July 2019)

- Responsible for developing the UI/UX of the mobile application.
- Integrated the REST APIs and made the application functionality available to the users by fetching and saving the required data from/to the application.
- Implement push notifications and gather analytical data with the help of Firebase Cloud services such as Firebase Cloud Messaging (FCM).
- Consulting the back-end team on suitable API development and security practices.
- Consulted the management team on new features that could be added to improve the user experience.
- Prepare necessary design, progress, and system documents as well as guide the team on following appropriate software practices such as Git branching and healthy commit habits.

Major Projects

User Agreement Service

A microservice catered towards providing the core product to handle, track, and create a centralized environment for agreements and terms and conditions. Insights and logs to make sure we have proper control of agreement versions as well as acceptance records. Tailored to make sure the product fits well within the current ecosystem.

Roles:

- Create the technical design and architecture for the microservice
- Collaborate with the solution architect to refine API design and flow with the core platform product
- Design, implement, and deploy the microservice
- Setup the required AWS services to be used by the microservice through Terraform
- Gather requirements and understanding from the legal team to make sure our product follows the compliance and flow that the clients expect

- Follow proper security protocols and guidelines to make sure our microservice is secure and reliable as well as has the best possible developer experience to be integrated with other products
- Create proper documentation and a frontend POC to demonstrate the working version of the product for other teams

Akku.GG

Full-fledged e-commerce for gaming accessories and digital products with distributors/retailers functionality as well as a digital wallet included within the platform. Other standard e-commerce functionalities such as inventory management, order management, newsletter, and custom roles are included.

Roles:

- Collaborate with team members to build a proper project management and development environment.
- Complete the client-side and admin front-end using ReactJS and Redux
- Help the backend team understand the business requirements and improve the database and API design.
- Create an efficient and proper CI/CD and automated testing pipeline.
- Set up AWS services such as EC2, RDS, S3, and SQS for the application.
- Work in sync with the clients to help deliver their needs and requirements on time and as per the acceptance criteria.
- Increase the development and delivery speed by being actively involved in the project that was way behind schedule according to the Sprint targets.
- Employ various code quality practices such as Linting, Prettier, and Minifying within the team.
- Research and implementation of newer features that improve the overall performance of the application along with developer-friendly code.

InfyTrip

A hotel browsing/booking website for customers where they have a wide variety of options to choose from. Packages/Recommendations allow for an interactive way to browse the platform. Convenient booking flow helps the users automate most of their booking worries to the system itself. The hotel dashboard is another module of this system for users as well as property owners.

Roles:

- Develop and lead the frontend team based on ReactJS.
- Apply certain coding guidelines and code quality standards with the help of ESLint and Prettier.