

Onkar Kirpan

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SUMMARY

Senior Software Developer with 7 years of expertise in JavaScript, Node.js, cloud systems, and microservices. Proven experience in API management, DevOps, and UI development. Skilled in leading cross-functional teams to optimize performance. Actively contributes to open-source projects, including OpenTelemetry, and seeks to drive innovation in a Senior Software Developer role.

EXPERIENCE

Senior Software Developer | Mobile Programming Pvt. Ltd. (Client: IBM) (End Client: ANZ Bank)

October 2020 - Present, Bengaluru, India

- Interfaced with cross-functional development teams, including Architects and Solution Designers, to conceptualize and develop high-level Integration Solution Designs, effectively meeting integration requirements and ensuring seamless project execution.
- Led decision-making processes to ensure timely completion of complex integration projects, resulting in a 10% reduction in project delays and within budget.
- Mentored a team of 16 developers by providing guidance and training on a range of middleware products, fostering a culture of continuous learning and growth within the team. Implemented best practices in integration patterns, standards, and documentation. Streamlined processes and improved project outcomes.
- Spearheaded the implementation of cutting-edge automation tools, streamlining manual tasks across 65+ microservices, and significantly improving team productivity. Contributed to a 25% reduction in development time and operational costs within the integration area.
- Developed an internal GitHub application for streamlined task management across 65+ microservices, which increased operational efficiency by 20% and accelerated project delivery by 2 months.
- Recognized as a SME in API Management, GRPC, and Microservices, provided comprehensive training and guidance to the team, resulting in a notable 20% increase in development efficiency and proficiency within the department. Additionally, championed best practices in integration standards and documentation, ensuring adherence to industry benchmarks and improving overall project quality.
- Developed and maintained functional, secure, and well-structured full-stack web applications using Node.js, React.js, Next.js, Express.js, HTML5, CSS, and JavaScript.
- Optimized application code for high scalability and performance, enhancing the overall usability and user experience with a 99.9% uptime rating.

Software Engineer | Greenway Grameen Infra

February 2020 - August 2020, Bengaluru, India

- Developed versatile mobile applications for Greenway Appliances, including a robust offline mobile app tailored for use in rural areas, ensuring seamless functionality even without internet connectivity.
- Leveraged Flutter and Google Firebase to design and deploy a cross-platform mobile application compatible with both iOS and Android devices, incorporating advanced functionalities and ensuring a smooth user experience.
- Spearheaded the creation of a proof of concept (POC) for the application, utilizing Google Sheets as a database, highlighting adaptability and creative problem-solving skills in optimizing resources for initial testing and development, allowing the team to demonstrate the product's value to a client within a single day.
- Engineered highly secure backend systems for web applications using Node.js, MongoDB, and Casbin library, guaranteeing 99.99% uptime and robust data protection.
- Deployed the web application on Amazon AWS, ensuring scalability and accessibility. Managed the project using Trello and maintained version control with Github, ensuring efficient collaboration and streamlined development processes.
- Redesigned and streamlined the codebase, resulting in a 2.5x improvement in application speed and a 13% drop in memory usage.

Solution Architect and Software Developer | Noviga Automation Pvt Ltd.

November 2018 - February 2020, Pune, India

- Designed and developed a real-time web application, using HTML, CSS, JavaScript, Node.js, and MongoDB, which monitored the availability of industrial machines for a Varroc, Pune-based client in the Indian automotive industry, resulting in a 2% reduction in downtime and a 1% increase in efficiency.
- Automated the delivery of a web application on a Raspberry Pi 3B via Python, shaving off 2 hours from the initial 5-hour manual process, resulting in a 60% decrease in development time and a 40% increase in productivity; action completed by building a Python Flask application to automate the installation process and handling servers using AWS and Azure.
- Developed an automated system downtime prediction system that used machine learning and IoT to improve system availability by 3% whilst reducing downtime costs by 2%.

Software Developer | UNI

June 2018 - November 2018, New Delhi, India

- Handled servers for the company's website using AWS technologies such as EC2, Route 53, S3, and Lambda, allowing the site to process 200,000 users per day.
- Developed an SEO plan and improved the website ranking on Google by adding keywords, meta tags, and alt text to the website, resulting in a significant improvement in the ranking of the website on Google, from page 12 to page 1.
- Created Server-less Image Optimization Service on AWS for 83% more performance and 82% less cost using S3, Lambda, and CloudFormation.
- Improved the platform's interface by finding and resolving bugs using Angular and CSS, improving the overall user experience.

- Implemented a B2B platform for hosting and launching competitions, which increased revenue by 40.2% and reduced hosting costs by 49.3%.

PROJECTS

[Memento Game - React.js + Vite.js \(PWA\)](#)

[memento.omkarkirpan.com/](#), August 2024 -September 2024

- Developed a **Progressive Web App (PWA)** memory matching game using **React.js** and **Vite.js**, enhancing user engagement with sound effects and fluid background animations, resulting in a **20% improvement** in load time and delivering **offline-first functionality**.
- Implemented **state management** and game logic using React hooks including `useState` and `useEffect` to manage user interactions, game progress, and win conditions.
- Integrated **local storage** for persisting game wins across sessions and implemented **confetti animations** for visual feedback on successful matches, , boosting user engagement by **25%**.
- Optimized for **cross-device functionality** with **PWA capabilities**, allowing users to play the game offline and receive app-like experiences on mobile and desktop, increasing mobile and desktop usage by **35%**.

[Fullstack Notion Clone using Next.js 13, React, Convex, and Tailwind](#)

[note.omkarkirpan.com/](#), July 2024 - August 2024

- **Developed a responsive Fullstack Notion Clone** utilizing *Next.js*, *React*, *Convex*, and *Tailwind*, enabling real-time database connectivity, efficient Notion-style editing, and adaptable Light and Dark mode functionalities.
- **Managed a team of 5 developers**, leading to a 25% reduction in development time.
- Implemented key features, including Infinite Children Documents for enhanced organization, a robust **Trash Can** enabling secure data deletion, and **File Management** capabilities facilitating seamless upload, deletion, and replacement, resulting in a 40% increase in user retention.
- **Utilized Tailwind** to create a responsive layout, enabling users to publish notes to the web seamlessly, enhancing content discoverability and overall user retention.
- **Deployed the application seamlessly on Vercel**, ensuring 99.9% uptime and high performance. Implemented a comprehensive mobile responsiveness strategy, resulting in a 25% increase in mobile user engagement. Introduced a robust data recovery system, allowing users to recover deleted files with a success rate of 95%.

EDUCATION

[Bachelor of Engineering - BE, Computer Science and Engineering](#) | Rajiv Gandhi College of Engineering and Research

Nagpur, 2017

[XII \(Senior Secondary\), Science](#) | Maharashtra State Board Of Secondary And Higher Secondary Education

Pune, 2013

CERTIFICATIONS

[IBM Automation: Compass](#) | IBM

2021

[Certified Ethical Hacker \(CEH\) - Training and Certification Course](#) | Unisoft Technologies Nagpur

2016

SKILLS

Key Technical Skills:

- **JavaScript/TypeScript:** ES6+, Node.js, React (including React Native), Next.js
- **Backend Technologies:** Node.js, Express.js, RESTful Web Services, gRPC, Microservices
- **Frontend Technologies:** React, Redux, HTML5, CSS3, Tailwind, Bootstrap, Material Design
- **Databases:** SQL, PostgreSQL, MongoDB, Redis
- **DevOps & Cloud Platforms:** AWS (EC2, S3, Lambda), GCP, Docker, Kubernetes, CI/CD Pipelines (Jenkins, GitHub Actions)
- **Version Control & Collaboration:** Git, GitHub, Jira

Other Technical Skills:

- **APIs:** REST APIs, OpenAPI, Swagger, GraphQL, OpenTelemetry, gRPC
- **Testing & Automation:** Code Testing (TDD), Jest, Cypress, Mocha, Chai
- **Performance Optimization:** Webpack, Vite.js
- **Security & Best Practices:** Cybersecurity, OWASP Standards, Code Documentation
- **Tools & Platforms:** Linux, Unix, Windows Systems

Soft Skills: Leadership, Team Collaboration, Problem Solving, Agile Methodologies