Nikhilesh Yadav

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PROFESSIONAL SUMMARY

Versatile developer with a Bachelor's in Computer Science, distinguished for collaborative skills and a track record of independently delivering impactful results. Ample experience in full-stack development, delivering well-documented, tested, and operable code. Efficient in collaborating and communicating new ideas and opinions.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (Node.js, AngularJS, React Native), TypeScript, Golang, Python, Perl, Bash, C
- **Frontend Development:** React.js, Angular, Redux, Tailwind, WebRTC, Websocket, Bootstrap, GraphQL, Pug, EJS, Cypress
- **Backend Development:** Node.js, Express.js, MongoDB, Postgres, GraphQL, Hasura, OpenAPI, RabbitMQ
- **Cloud Services:** Google Cloud Platform (GCP), Firebase, Docker, Redis, Keycloak
- **Testing and QA:** Jest, Mocha, Test-Driven Development (TDD), Cypress, Unit Testing.
- **DevOps and Deployment:** CI/CD Pipelines, GitLab, Husky, Docker Swarm, Git, Webpack
- **Observability and Monitoring:** Grafana, Loki, Prometheus, OpenTelemetry, Tempo
- **Security:** OAuth 2.0, JWT, Passport, Encryption (AES, RSA).
- **APIs and Integration:** RESTful APIs, Websocket, SSO Integration, grpc.
- **Development Tools:** VSCode, WebStorm IDE, Chrome DevTools, Postman, HTTP-toolkit, Git

EDUCATION

Noida Institute of Technology and Engineering, Noida.
B.tech with **CSE**, Aug **2021**

WORK EXPERIENCE

FOUNTANE INC | SOFTWARE ENGINEER   Hyderabad, India | Dec 2022 - present

- *Parkpoolr* - Airbnb of parking - *Reactjs, Typescript, ReactNative, Golang, Nodejs, GCP, Firebase, Docker*
    - Spearheaded feature development and performance diagnostics, optimizing and enhancing **booking** and **search** algorithms to deliver premium user experiences.
    - Achieved notable performance improvements, notably reducing **P99** latency from 30s to 2s, resulting in a significant enhancement in system responsiveness.
    - Implemented costing optimization strategies in **Google Cloud Platform (GCP)**, resulting in a remarkable 30% reduction in operational expenses.
    - Orchestrated the migration of all services from virtual machines to **Docker Swarm**, implementing a comprehensive **CI/CD pipeline** and ensuring seamless deployment processes.
    - Established a full **observability** setup to monitor and analyze system performance, enabling proactive identification and resolution of potential issues.
- *Impowered* | Urbanclap-like EMS and Hiring Platform - *Angular, Typescript, GraphQL - Hasura, Firebase*
    - Spearheaded front-end development efforts for **Impowered**, overseeing a team responsible for building three distinct front-ends, including React Native app development (enhancement).
    - Collaborated closely with the back-end team utilizing **Node.js, GraphQL**, and **Hasura** to ensure seamless integration between front-end and back-end systems.
    - Demonstrated expertise in managing complex front-end architectures and ensuring optimal user experiences across multiple platforms.
- *Sundai* - (MVP) Siri akin tool to integrate Slack, Google Calendar, Keka, and Asana - *OpenAI, Langchain, Python*
    - Leveraged **OpenAI API, Langchain**, and **Python** to develop a natural language shell for **Sundai**, akin to Siri.
    - Engineered a sophisticated system capable of transparently querying **Google Calendar, Asana Tasks, Slack channels**, and executing actions based on user commands.

- *Observability Stack* - Full stack **observability** using - *Grafana, Loki, OpenTelemetry, Prometheus, Tempo, Keycloak*
  - Implemented a comprehensive **observability** stack utilizing **Grafana, Loki, OpenTelemetry, Prometheus, Tempo**, and **Keycloak** for internal use.
  - Orchestrated end-to-end setup and integration with **Parkpoolr apps** and services, ensuring seamless monitoring and analysis of system performance.
  - Configured single sign-on (**SSO**) and access control with **Keycloak**, enhancing security and user management capabilities across the platform.

MADPAT GMBH | Software Engineer   Leonberg, Baden-Württemberg, Germany | May - Nov 2022

- Worked on core web technologies like **Nodejs, Mongodb, Typescript, Javascript, Reactjs, MaterialUI, EJS, Angularjs, Postman, Jest, Mocha, Docker, Bash, Expressjs** etc.
- Took responsibility for migrating **datagrids**, **forms** and dashboard components from **angularjs** to reactjs for a large scale Sales and promotion management software. *Reactjs*, *MaterialUI*.
- Was responsibly involved in finding **security issues** in applications. **Hunted bug** which allowed full compromise of admin accounts (leaked secret keys), among others. *Postman*.
- Managed **deployement pipeline** on **gitlab**. Added Husky in build pipeline. *Husky*.
- Extensively used debugging tools like **HTTP-toolkit, Chrome-devtools, Webstorm-IDE, Postman** etc.
- Worked on improving **development setup** for hybrid angular-react frontend. **Enabled hotloading**, setup husky hooks. *Webpack, Husky, git*.
- Was responsible for design/arch decisions for the frontend keeping future migration above this foundational code. Introduced **rest-hooks**, **joi** , **runtime-type-validation** in typescript, and helped in restructuring the project.
- Took shared responsibility of upgrading backend tech stack from nodejs v6 to v14, and meanio to expressjs.
- Helped **onboarding new joinees**, improved onboarding routines to make it easy. Written **bash** script to **automate** local setup. *Bash, Docker, .devcontainer*

1DIGITALSTACK.AI | Full Stack Engineer   South Delhi, Delhi | June - Apr 2022

- Worked on a data aggregation and visualization dashboard in a team of 2 developers. Used *pug*, *express*, *nodejs* and *postgres* as technology stack. Co-implimented multi-tier caching using *Redis* and *Dexie* in frontend.
- Co-implemented an authentication server using **Keycloak.** Implemented complete authorisation mechanism in this application, providing per-client multi user system with user specific permission using **OAuth2.0 + JWT + Passport**.
- Designed and implemented *Open-API+rabbitMQ* service which collects and process data from 3rd parties, intensively using **IPC**.
- Designed and implemented **Credential Vault** to store sensitive client data used by various applications in organisation. Used double symmetric encryption to ensure all-party liability for maximum robustness.
- Created and managed **microservice** as an upgrade to existing notification configuration management service across all products.
- Created and managed web experiments which resulted in **more than 160 percent** increase in web to app installs.

GEMINI SOLUTIONS PVT LTD. | Software Development Intern   Gurugram, India | Jan - Jun 2021

- Written Scripts for automatic testing of autosys job definitions being deployed into the production server.**Perl.Bash.**
- Created Automated testing suite for frontend applications using cypress in gitlab pipline. **Typescript. Mocha. Cypress.**