

Nikhilesh Yadav

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WORK EXPERIENCE

MADPAT GMBH | SOFTWARE ENGINEER

Leonberg, Baden-Württemberg, Germany | May - Oct 2022

- Worked on core web technologies like **Nodejs, Mongodb, Typescript, Javascript, Reactjs, MaterialUI, EJS, Angularjs, Postman, Jest, Mocha, Docker, Bash, Expressjs** etc.
- Extensively written unit test for every change using **Jest** and **Mocha**. Did Test Driven Development on **webstorm**. *Jest, Mocha, webstorm IDE*.
- Written migration script to transform documents in **mongodb** production. *mongodb*.
- Took responsibility for migrating **datagrids, forms** and **dashboard** components from
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 **deployment pipeline** on **gitlab**. Added Husky in build pipeline. *Husky*.
- Extensively used debugging tools like **HTTP-toolkit, Chrome-devtools, Webstorm-IDE, Postman** etc. *angularjs* to *reactjs* for a large scale Sales and promotion management software. *Reactjs, MaterialUI*.
- 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-implemented 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 pipeline. **Typescript. Mocha. Cypress**.

SKILLS

- **Languages:** Solidity, Typescript, JavaScript, Python, Bash, C/C++, SQL, Text parsing using pegjs
- **Web Development:** Nestjs, React, HTML5/CSS3, Material UI, WRTC p2p, Socketio, Bootstrap, JQuery, Pug, Express, OAuth, JWT, OpenAPI3.0
- **Frameworks and Libs:** Postgress, Firebase, webpack, babel
- **Tools and Tech:** Linux, Nodejs, AWS(ec2, lambda, s3), Git, Electron, Docker, Computer Networks, HTTP, Cryptography [signatures, asymmetric/symmetric], WSL, SSH

PROJECTS

SECRETS VAULT [↗](#)

TYPESCRIPT, POSTGRESS, CRYPTO, OPEN-API

Designed and developed a scalable solution to store organization secrets with multi-layer encryption and decentralized ownership of the recovery keys using shamir's secret sharing(SSS) algorithm. Focused on making it horizontally scalable.

JOB SCHEDULER SERVICE [↗](#)

NESTJS, TYPESCRIPT, POSTGRESS, CRON, RABBITMQ

Created a microservice to initiate and monitor organization level tasks based on cron/event based triggers. Focused on failure recovery and Handling of missed triggers. Used custom URIs to encode source of job payload as well to define triggers. This approach allows easier extension, usage as well as management of this service. eg. for a row in database *pgrow://<schame-name>/<table-name>?<column>=<value>* or for JSON *data:application/json;*,

OTHER PROJECTS [↗](#)

WEBRTC, WEBSOCKET, SOCKETIO, STREAMING, ENCRYPTION, PROXY, OPEN-SOURCE

- Ebullience tech fest website
- Whatsapp eWay-bill bot
- VPN Jump Server
- e2e terminal chat
- talk-to-gdb
- C++ REPL