Gaurab Paul

Full Stack Web Application Developer

Contact

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Online presence

lorefnon.tech
twitter.com/lorefnon
github.com/lorefnon

Skills / Exposure:

Frontend Development:

Proficient: Javascript, Typescript, React, Redux, MobX, GraphQL, Backbone, Knockout, Sass
Basic: ReasonML, WebAssembly

Backend Development:

Proficient: Ruby on Rails, Node.js, Socket.io
Intermediate: AWS (EC2, ECS, S3, RS, DPS), Protobuf, ZMQ
Basic: Meteor.js, Java, GAE, Clojure

Persistence Solutions:

Intermediate: MongoDB, PostgreSQL, Redis

Interest Areas

Web development
Real time technologies
System integrations
Functional programming
Infrastructure technologies

Experience (6 years):

D. E. Shaw Pvt Ltd.

(Full time role)
(Project Leader (Current): 1yr, 7 mo)
(Senior Member, Technical: 1yr, 8 mo)

Collaborated with multiple teams (in US, London and Hyd) on migrating applications (for trading, portfolio management, data analysis, forecasting etc.) from legacy java portal stack to microservice based web applications.

As a member of a small portal infrastructure team, facilitated service integrations at Node.js layer and library support for business aware components based on React, Redux, Webpack and modern web technologies.

Led the development of a unified reporting solution for static and web based dynamic (real time) reports which replaces multiple legacy solutions. Led the development of an integrated component-oriented discussion management solution for trade collaboration within application dashboards.

Contributed to internal exploratory documentation and API discovery site, and data analysis components for pivoting, multi-dimensional exploration, drill down analysis etc.

Assisted in onboarding of Java/Python developers to modern (ES6+) javascript and typescript stack.

StudyPad

(Full time role, Ruby on Rails developer, 2 yrs)

Worked on backend APIs for mobile clients, payment integrations with stripe, A/B testing setups, infrastructure orchestration (AWS).

Worked on real time course progress monitoring dashboard powered by Rails and Knockout.js.

Nifty Window   (Full time role, Web developer, 1 yr)

Worked on java based backend APIs for GAE integrated web services for E-commerce, marketing and advertising domains. Built integrated dashboards for managing flow of consumer interactions on different social platforms using Backbone.js, jQuery, jade etc.

IBM Research, India   (Internship, Research trainee: 3 mo)

Worked on devising new effective methodologies for determination of execution history of enterprise applications hosted in change-controlled client deployments.

Open Source Work

Personal Projects

- GRelDAL: Bidirectional RDBMS to GraphQL mapping solution for Node.js
- InGenR: Solution for language agnostic inline code generation
- Fluid Outliner: Offline-enabled PWA Outliner

Contributions:

- Rolify (Hierarchical role management and resource scoping library for ruby) : Improved mongodb integration support & test matrix (using appraisals).
- Codiad (Web based IDE): Enhancements around project management and optimizations around client-server information exchange.
- Knex (SQL Query builder): Enhancements around typescript integration

Publications

Distributed Program Tracing

ESEC/FSE 2013 Proceedings of the 2013 9th Joint Meeting on Foundations of Software Engineering

Divide and Conquer based strategy for optimally parallelized automated instrumentation of SAP/ABAP applications in constrained environments.

https://dl.acm.org/citation.cfm?doid=2491411.2491451

Education

B. Tech (Computer Science and Engineering) from IIT Kharagpur
(4 yrs, on campus, CGPA: 7.8 / 10, completed: 2013)

XII: CBSE, Science+Maths, Completed: 2008, Marks: 92.6%
X: CBSE, Completed: 2006, Marks: 93.6 %