KARTHIC KUMAR K

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SKILLS

Programming	Haskell, Python, Java, JavaScript	**Tools**	Docker, Kubernetes, Terraform
Operating System	Linux, Windows	**CI/CD**	Gitlab CI, Jenkins
Cloud	AWS, GCP	**Misc**	System optimisation and Profiling

EXPERIENCE

_G10X   Apr 2023 - Present
Associate Software Development Engineer   *Kochi, India*

- Working as a Software engineer in an American MNC developers team on a supply chain management project.
- Tech stacks used are Haskell, PostgreSQL, GCP, Datadog, Nix, Docker, Gitlab CI/CD.
- Wrote Unit and Functional tests for the application routes which found many errors which might have caused trouble in prod.
- Designed APIs, researched and wrote technical documents and decided optimal approaches for required tasks.
- Replaced the docker base image of the services to reduce space and compute memory which made application a lot faster.
- Created datadog monitor event alerts using terraform.
- Worked on Production support and debugged production issues.
- Adhering to strict Agile methodologies, conducted sprint retros.

Juspay Technologies   Aug 2021 - Apr 2023
Technical Product Analyst - I   *Bangalore, India*

- Tech stacks used are Haskell, nix, PostgreSql, Redis, Docker, Jenkins
- Worked on a migration project to write an existing purescript application to Haskell.
- Worked on converting core Javascript FFI functions to Haskell functions which boosted the application performance greatly.
- Helped on writing an automated testing tool for testing the migrated Haskell application.
- Reviewed peers pull requests, mentored Juniors for this migration project.
- Created a whole new payment gateway "Beta gateway" that supports all payment methods so that newly onboarded merchants can test their payments via Juspay easily.
- Worked on Recurring transactions team, worked on solving business logics issues.Added mandate flows for new gateways like Gocashfree, Payu (UPI mandate).
- Were on on-call for production support.

Juspay Technologies   Sep 2020 - Aug 2021
Technical Product Analyst Intern   *Bangalore, India*

- Worked on Purescript for developing an Payment Gateway Aggregator application
- Tech stacks used are Purescript, MySQL, Javascript (for FFI functions), Redis, Docker, Jenkins, Bitbucket
- Added different payment method logics like card, NetBanking and UPI for many payment gateways like Shopse, Razorpay etc.,
- Added mandatory sync feature which is a server to server call for payment confirmation between Juspay and payment gateways.
- Worked on production support on-call.
- Gave hotfix for many prod issues.

Projects

- Linked Lists   - a single url dashboard application written fully on Haskell and bash.
- Url shortener   - a web application very similar to bit.ly which shortens a long url, written using express JS.
- Wall-E   - a CLI tool used to download wallpapers based on the parameters given.
- Chat-room   - a messaging application which uses websocket protocol to communicate between users.

EDUCATION

Bannari Amman Institute of Technology   2017 - 2021
Bachelors of Engineering, Electronics and Instrumentation   *Coimbatore, India*