

KSHITIZ GUPTA

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A full stack developer having worked on a variety of projects ranging from front-end, backend, oauth to big data.

SKILLS

- Programming Languages: Java, Javascript, Nodejs, C++, jquery, css, Html
- Databases: Cassandra, Dynamodb, Mongodb, Postgres, Redis, Redshift, Sql
- Technologies/Services: ElasticSearch, Ajax, Websockets, Splunk, Grafana, Docker
- Aws: Lambda, Api Gateway, Data Pipeline, EMR, S3, SecretManager, SNS
- Frameworks: Dropwizard, EJB, Express(Nodejs), Hadoop, JavaEE, JPA, Jaxrs, Spring, Struts

EXPERIENCE

Paypal, Stockholm – Senior Software Engineer

8 July 2019 – *

- Member in **User Identity** team, **izettle**, a Paypal service. Worked on login service – a SSO solution, authorization service which issues tokens using OAuth2 standards, authentication service and a monolith central service
- **Migrating users to Paypal:** Implementing batch job for integrating izettle users into Paypal domain.
- **Support for payments JAVA sdk:** Built feature to remember the user consent and support extended scopes access for external third party apps.
- **JS authorization SDK** (Team size 3): Helps single page applications & micro-front-ends to authorize & fetch access tokens. Authorization is done using authorization grant with PKCE and web message. Contributed in conceptualisation, design discussions and changes in authorization service.
- **Google Recaptcha Integration**(Team size 1): Built a middleware which injects google recaptcha scripts, does score verification and takes appropriate actions as per user's risk of being a bot or a human (nodejs)
- **Rate limiting integration:** This was a one day project, with few improvements later on, which needed immediate attention after the enumeration attacks. (Nodejs + redis)
- **Integration Tests:** Took responsibility of refactoring and adding uncovered integration testing scenarios which just covered one scenario earlier.

Bankbazaar, Bangalore – Senior Software Developer

18 April 2016 – 31 Dec 2018

- Designed and Implemented **Caching Solution** to reduce AppSummary hadoop job's execution time from 20 to 10 mins/day. This saved the company's cost in terms of developer time resources spent.
- Designed and implemented a framework to enroll multiple email vendors as compared to a single vendor earlier. Achieved this by refactoring the code to support a plug and play mechanism to add/remove vendors for

sending campaigns. Implemented an **In-House EmailMetrics** system to capture email campaign metrics using AWS Services like API Gateway, Lambda, EMR and basic event capturing techniques.

- **Developed Credit Tracker (most critical Bankbazaar Product)** - a scalable solution using already existing infrastructure of java, struts, spring, hibernate, js, jsp's. Introduced **web-sockets** for horizontal scalability of the solution . The system scaled from 10k users in Jan 2017 to 1M users in Dec 2018 without any changes and is still good to go ahead.

IndiaBookStore/Vivilio, Gurgaon – Software Engineer

18 Feb 2014 – 12 April 2016

- Part of the founding team of Vivilio which I built from scratch using Nodejs, Mongodb, Redis. Broke the monolithic system further into multiple microservices having their own independent stacks, communicating using exposed REST APIs.
- Developed a highly scalable and fast Web Crawler using a JobServer-Worker architecture to gather, process and efficiently store data from 10 million web pages using Nodejs, Mongodb, Redis.
- Developed User **Live Feed System** to serve feeds from registered users using Getstream.io.
- Developed **Book Categorization** using ElasticSearch.

Hewlett Packard R&D, Bangalore – Firmware Engineer

2nd Sept 2011 – 14 Feb 2014

- Implemented **Airprint** 1.0-1.3. Airprint works on IPP (Internet Printing Protocol for Apple devices) module which provides end-to-end capabilities – accept client's request, parses / verify / compile / pass to printer and respond to the client. (C++, OOPS, SOAP Web Services).

EDUCATION

Dhirubhai Ambani Institute of Information & Communication Technology (DAIICT), Gujarat – B.Tech. in Information & Communication Technology (CPI 7.08/10)(1st July 2007–20th May 2011)

AWARDS

- **Certificate of Excellence** (Dec 2016) for designing the Credit Tracker System which scaled well for a period of an year(and still running) without requiring any further changes.
- **Certificate of Appreciation** (Sep 2013) Contributed in delivering Wireless Direct Print Functionality which precludes the need of an external hotspot for a layman user to connect to VEP printers and opens up an entire vista of mobility solutions comprising NFC-based Tap to Print, QR-based scan to connect and WiFi Direct Services.
- **Certificate of Appreciation** (Jul 2013) Contributed in making Mercury program a success – "Mercury A game changing platform for Large Functional printers"