

# KSHITIZ GUPTA

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You can call me a back end developer now, but I have done my bits in front end too. Worked in a variety of areas from rest apis, end-to-end web application features, map-reduce big data and currently Oauth.

## SKILLS

- Programming Languages: Java, Javascript, Nodejs, C++, jquery, css, Html
- Databases: Cassandra, Dynamodb, Mongoddb, 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 scalable Credit Tracker System.
- **Certificate of Appreciation** (Sep 2013) for contribution in Wireless Direct Print Functionality.
- **Certificate of Appreciation** (Jul 2013) for contribution in Mercury programme – A platform for Large Functional printers"