

# KSHITIZ GUPTA

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What am I now? A backend developer, intrigued with scalable solutions & architecture. Worked in a variety of areas from rest apis, end-to-end web application features, map-reduce big data and currently OAuth. Had some adventures with C++ when I worked on printers but it wasn't much fun. Also I have done tiny bits in the frontend too, on-demand basis, so not a pro.

## 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, Express(Nodejs), Hadoop, JavaEE, JPA, Jaxrs, Spring Boot, Spring, Struts

## EXPERIENCE

### **Paypal**, Stockholm – Senior Software Engineer

8 July 2019 – \*

- Member in **User Identity** team, **izettle**, a **Paypal** service. Work with authorization service which issues tokens using OAuth2 standards, authentication service, sun – a monolith central service and a minimal front end login service
- **Migrating users to Paypal**: Built a scalable solution for migrating izettle users to Paypal
- **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 & Rate limiting**: Implemented middlewares to tackle enumeration attacks and bot behaviour (Nodejs + redis)
- **Focus on continuous refactoring**: Identifying areas in code which needed some love. One such case was refactoring integration tests which were getting uglier by the day. Streamlined several flows and achieved cleaner code and greater efficiency when adding more tests in future

### **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.
- 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.

- 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.

## **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"