Oitihjya Sen

otee.dev | hello@otee.dev | github.com/oitee | linkedin.com/in/oitihjya | medium.com/@otee.dev

WORK EXPERIENCE

Helpshift – Clojure Software Engineer
May, 2022 - *Present*

- Revamp **real-time event-driven** assignment engine for customer tickets to online agents
- Establish **observability** best practices with SLOs, monitoring, alerting and structured logging
- Implement canary releases in Clojure web services
- Balance **security** with user-experience by integrating industry-standard captcha providers
- **Mentor** three software engineers into Clojure and distributed backend systems
- Worked with **Clojure**, **MongoDB, Kafka**, YugabyteDB, Redis
- Published two blog posts on Helpshift Engineering Blog and organised internal engineering talks

PERSONAL PROJECTS

URL Shortener
A web app that shortens URLs on a per-user basis, with basic analytics tracking

- Unique short links generated by using counters on PostgreSQL and a pseudo-random string
- Password storage with salted HMAC and pbkdf2
- *Built using*: Node.js, Express.js, Mustache templates, PostgreSQL, JavaScript, Bootstrap/CSS
- *Deployed*: https://twirl.otee.dev (code) (documentation: 1, 2, 3)

Twitter blog aggregator Bot
A bot that consumes XML feeds from selected blogs and tweets new posts

- Idempotency guarantees and at-most once semantics
- *Built using*: Node.js, PostgreSQL, Twitter REST API, deployed on Heroku
- *Deployed*: https://twitter.com/cardimomT (code) (documentation)

Lisp interpreter
A simple Lisp interpreter that evaluates S-expressions in LISP languages like Clojure, using LR-parsing

- *Built using*: Node.js; *Code*: https://github.com/oitee/crisp (documentation)

Flash Cards
A web-app that replicates flash cards, by randomly displaying questions & answers from a given data-set

- *Built using*: Clojure, Ring, Compojure, Bootstrap/CSS
- *Deployed*: https://remind.otee.dev (code) (documentation)

Vidhi Center for Legal Policy – Research Fellow (Legal)
March, 2019 - July, 2021

EDUCATION

Recurse Center – NYC, USA
January, 2022 - February, 2022

Hidayatullah National Law University – Raipur, India
BA. LLB (Hons), 2018

SKILLS

Clojure, MongoDB, Kafka, Redis, JavaScript, Express.js, PostgreSQL, Java