

https://otee.dev | github.com/oitee hello@otee.dev

# **PERSONAL PROJECTS**

#### Twirl URL Shortener

Code: https://github.com/oitee/twirl

Deployed: https://oteetwirl.herokuapp.com/signup

- Web app to shorten URLs on a per-user basis, with basic analytics tracking
- Password storage with salted HMAC, using standard pbkdf2 function
- Authentication middleware to enforce redirection to log-in page without encrypted session cookiesz
- Enforce HTTPS on Heroku by reading the X-Forwarded-Proto HTTP header
- Google's recaptcha v2, to prevent bots from sign-up
- Unique short links generated by using counters on PostgreSQL and a pseudo-random string
- User interaction flow integration testing. Deployed on GitHub workflow
- Back-end built using: NodeJs, Express framework, Mustache templates,
  PostgreSQL, deployed on Heroku
- Front-end built using: JavaScript, Bootstrap CSS, HTML

# **Cardimom Blog Post Twitter Bot**

Code: https://github.com/oitee/cardimom

Post: https://otee.dev/2021/10/10/cardimom-twitter-bot.html

- A bot to consume XML feed from selected blogs, tweet filtered posts
- Deployed here: https://twitter.com/cardimomT; published 122 tweets
- System configuration file for adding new blogs and filters
- RSS and Atom parsing, using JSDOM
- Idempotency guarantees and at-most once semantics
- Secrets managed via environment variables; not on source code
- Integration tests using Jest framework on GitHub workflow using Docker for PostgreSQL
- Built using: NodeJs, PostgreSQL, Twitter REST API, deployed on Heroku

## **Crisp LISP interpreter**

Code: https://github.com/oitee/crisp

Post: https://otee.dev/2021/08/24/crisp-a-simple-lisp-interpreter.html

- Evaluate S-expressions in LISP languages like Clojure using LR-parsing
- Using stack for nested expression evaluation
- CLI interpreter for reading, evaluating and printing on loop (REPL)
- Compiled browser version for REPL using Babel
- Unit testing using Jest framework on GitHub workflow
- Built using: NodeJs

# **Tech Blog**

Code: https://github.com/oitee/oitee.github.io

Deployed: https://otee.dev/

- Self-documentation of technical concepts
- Built using Jekyll static site generator, hosted on Github Pages, served on Google domains and tracked using Google Analytics
- 600+ page views in the last 90 days, with 200+ unique users

A qualified lawyer, switching to a career in **back-end** engineering

# **EDUCATION**

B.A., LL.B(Hons.)

Hidayatullah National Law University CGPA: 8.00/10; Rank: 10 out of 180

## **WORK EXPERIENCE**

### **Research Fellow**

Vidhi Centre for Legal Policy (2019-21)

- Resident subject-matter expert on India's Insolvency and Bankruptcy Code, 2016.
- Advised the Ministry of Corporate Affairs on legislative amendments
- Contributed to various Government Reports on insolvency reforms
- Co-authored: 'Designing a Framework for Pre-Packaged Insolvency Resolution in India Some Ideas for Reform' (February, 2020)

# Legal Manager(Corporate)

ICICI Bank (2018-19)

- Drafted multi-party loan agreements
- Prepared written statements and represented the Bank before Civil and Consumer Courts
- Researched on banking and insolvency legislations

### **SKILLS**

NodeJs Express PostgreSQL

Heroku APIs VS Code

## **LINKS**

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