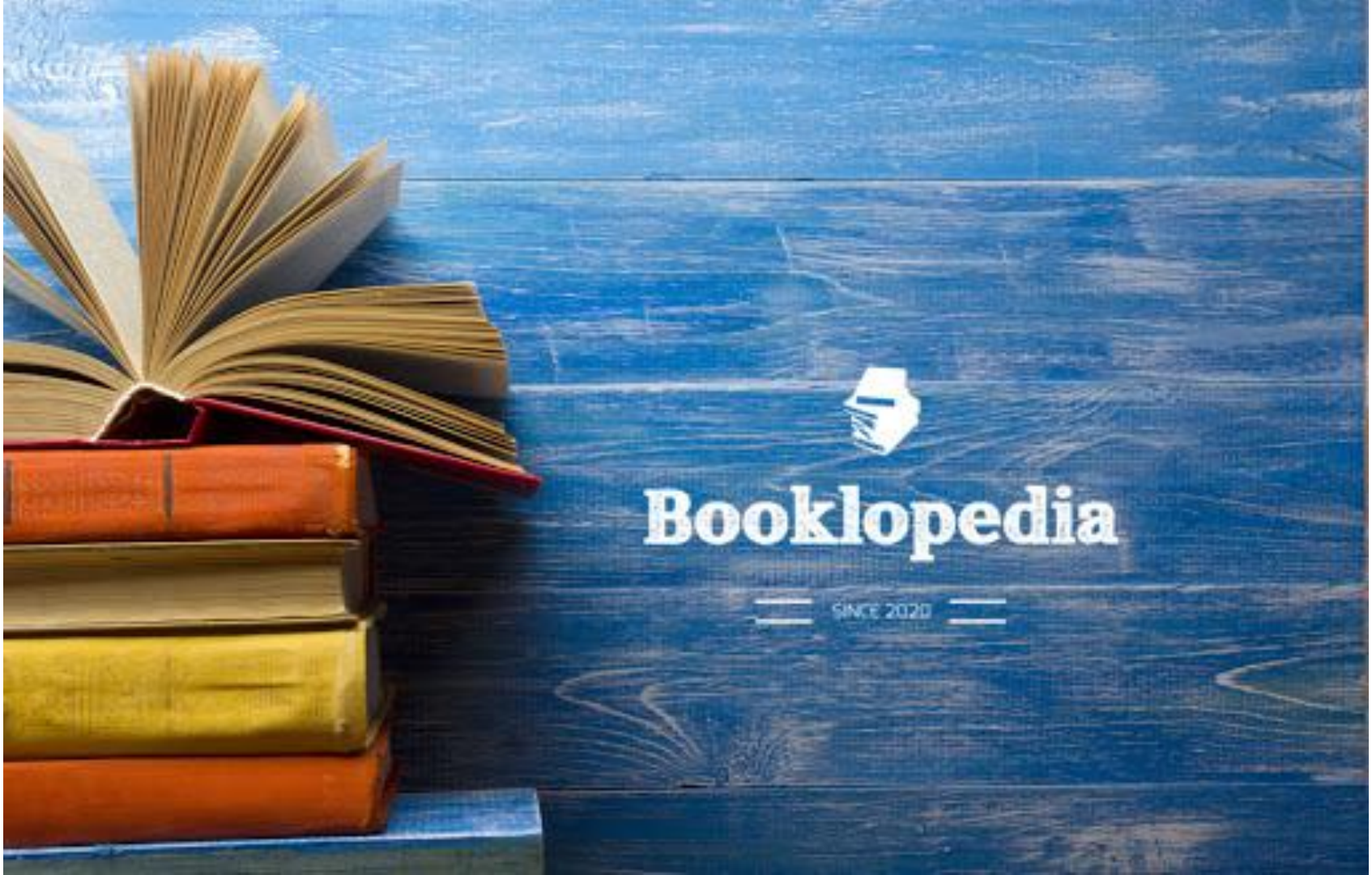

Booklopedia
SINCE 2020

Kumaran Arulmani

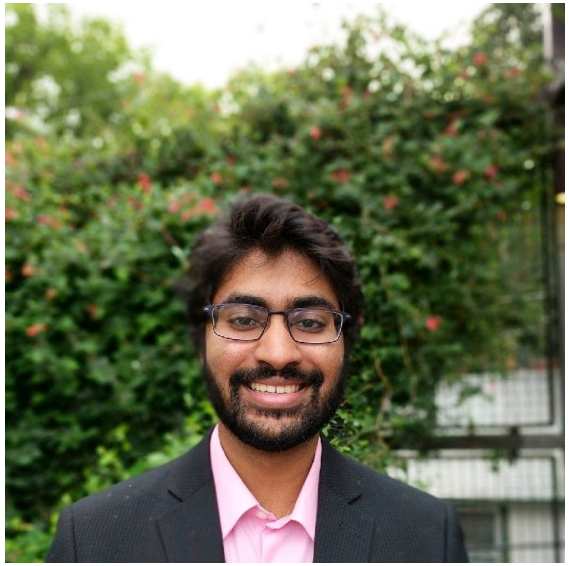
Classification: Junior

Major: ECE

Tracks: Software Engineering & Academic Enrichment

Primary Contributions:

- Created Back-end API
- Created About Us Page



David Day

Classification: Junior

Major: ECE and Math

Tracks: Software Engineering & Academic Enrichment

Primary Contributions:

- React component development
- Unit testing

Matthew Jiang

Classification: Junior

Major: ECE

Tracks: Software Engineering & Academic Enrichment

Role: Front-End Developer

Primary Contributions:

- Designed navbar
- Implemented sorting/filtering options

Vishruthi Ramaswamy

Classification: Junior

Major: ECE

Tracks: Software Engineering & Academic Enrichment

Role: Front-End Developer

Primary Contribution:

- Unit Tests
- Designed Book & Author pages

Siddhartha Shetkar

Classification: Junior

Major: ECE

Tracks: Software Engineering & Academic Enrichment

Role: Front-End Developer

Primary Contributions:

- Designed results & instance web pages
- Setup routing between web pages
- Implemented database fetches/populated webpages

Jaino Vennatt

Classification: Senior

Major: ECE

Tracks: Software Engineering & Academic Enrichment

Role: Back-End Developer

Primary Contributions:

- Created database and migrated data from APIs
- Worked on Back-End Server
- Did back-end testing

Booklopedia: The Internet Book Database

Purpose:

- Curates information about modern English books
- Allows for robust search capabilities through authors, books, genres, ratings, etc
- Centralized location for all information regarding authors, books, and genres

Users:

- Online book lovers
- Book lovers who want a dedicated place to browse recent popular books

Frameworks Used

- Front-end
  - React
    - Material-UI
    - React-Router
  - Jest/Enzyme - unit testing
  - WebDriverIO - integration testing
- Back-end
  - Node.js
  - Express
- Database
  - MongoDB
  - Postman - database testing

Technology Stack

MongoDB

- Classroom experience let us be more familiar with MongoDB
- Popular NoSql framework
- Straightforward API

Express

- Similar to Javascript, so Node.js was easy to pick up
- Native support for MongoDB

React

- Many popular frameworks support React
- React is a very popular front-end framework
- The React Component system let us reuse code and decrease duplication.

Self-Critique

What we did do well?

- Intuitive UI
- Substantial Refactorization of Code
- Full Functionality

What we could improve on?

- Add more sorting/filter options
- Better Visuals, UI Design
- Display more statistics/data on instance pages
- Add user profiles for a more personalized experience

What did we learn?

- Integrating front end & back end in web development
- How to use design patterns to make more adaptable and readable code

Developer Critique

What did they do well?

- Lot of options for the users
- Visually aesthetic design

What they could improve on?

- Add loading icons, sometimes website rendering lags (dark mode)
- Slight UI bugs (carousel shows sliders during videos, grid display spacing looks inconsistent)
- Make all clickable links look clickable (link to homepage doesn’t indicate visually that it is clickable)

What did we learn from their website?

- We could improve our databasing, they have lots of images that load quickly, while ours does have some lag time
- We would benefit from using smaller fonts and a more consistent theming
- Make all clickable links look clickable (link to homepage doesn’t indicate visually that it is clickable)

What was confusing about their website?

- The lite/dark mode button seemed a little misleading; might have been intended to work that way
- There is not good distinction in the two sections for the home page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