



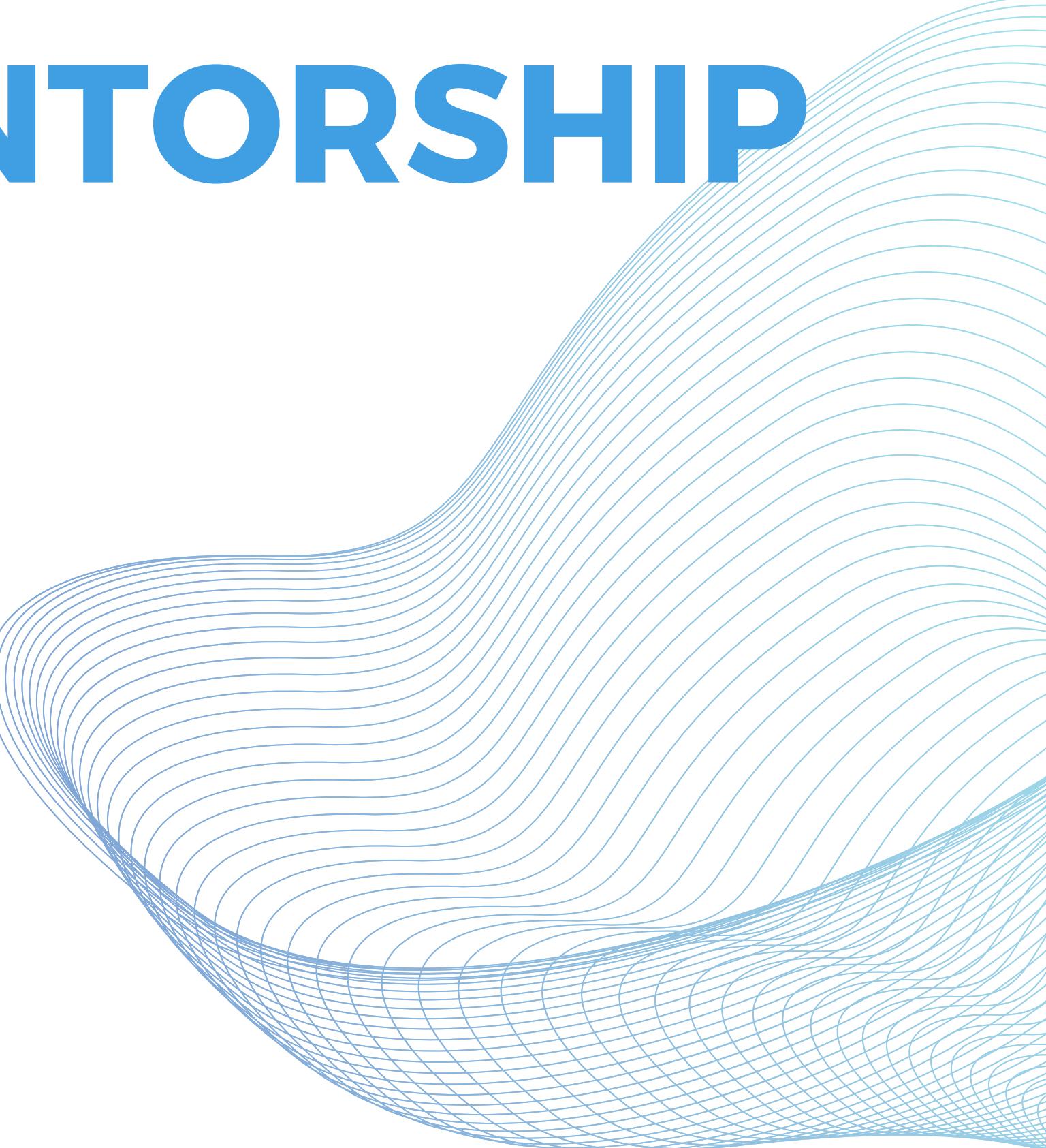
**AI POWERED**

**FULL STACK**

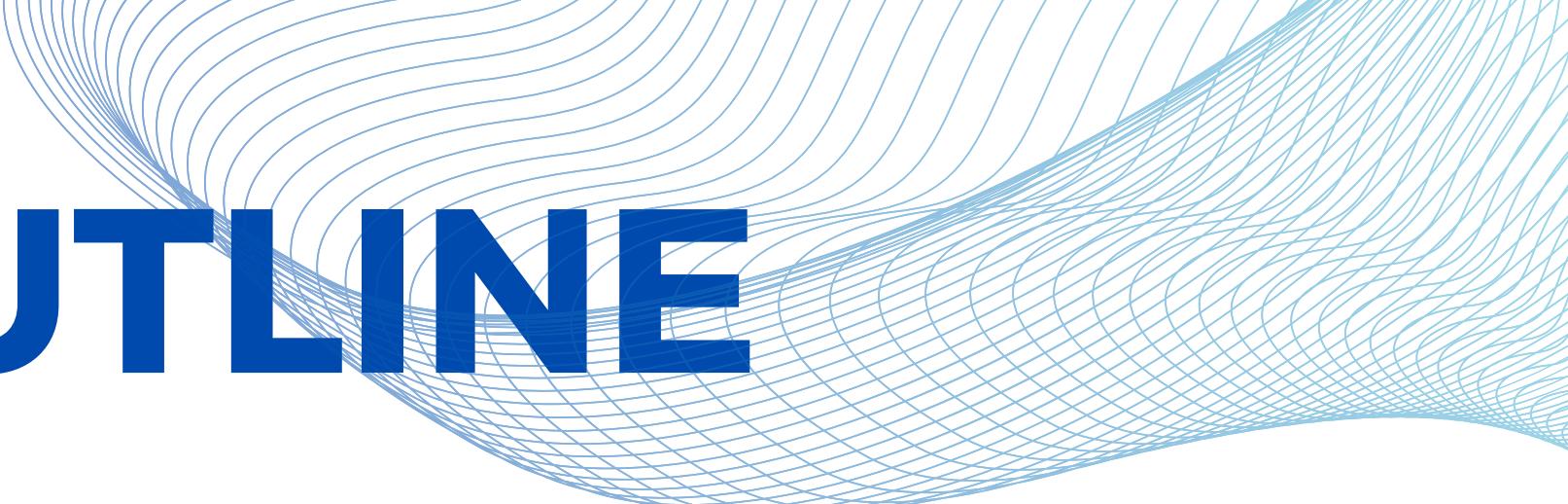
**DEVELOPMENT**

A central text block featuring the words 'AI POWERED', 'FULL STACK', and 'DEVELOPMENT' stacked vertically. 'AI POWERED' is in purple, while 'FULL STACK' and 'DEVELOPMENT' are in a large, bold, teal color.

The Future of Development: Elevating  
Productivity using latest Gen AI tools



# CURRICULUM OUTLINE



## 5 MODULES

- 1. HTML, CSS, JavaScript, jquery, bootstrap, ES6, React with Redux**
- 2. Java / Python with Data Structures and Algorithm**
- 3. Sql, Nosql, mongoDB, CCloud + Devops**
- 4. Nodejs, ExpressJS**
- 5. System Design**

**More than 17 AI tools**

**6 + Projects (3 Guided projects + 3 assigned projects)**

**6 Months Work experience in live projects + code review**

**Interaction with industry experts + mock interviews**

# **ABOUT COMPANY**

Propel Mentorship provides opportunity for students to get guidance from Industry experts who have trained lakhs of corporate employees. We understand the latest in-demand skills and mentor students to upskill and gain practical experience by involving our students in real world projects.



# VISION

We aim to provide the learning and work experience which universities have fail to provide. As a company our vision is to provide the quality education, support and feedback to improve students practical knowledge



# **OUTCOME BASED CURRICULUM**

**DESIGNED BY**

**RAM ALHARI**

Alumni of IIT Bombay.

Has mentored more than 1 lakh learners,  
corporate employees in his 14 years of  
Experience

Has been Learning and Development  
Consultant for top MNCs

# MODULE 0

# INTRODUCTION TO GENERATIVE AI



GitHub  
Copilot

- Roadmap to become a AI powered Full Stack

Developer

- Industry Connect

- Introduction to Gen-AI

Prompt Engineering

## BONUS

- MASTERCLASS ON HOW TO STAY RELEVANT IN THE ERA OF  
AI
- Prompt Engineering

## OUTCOMES

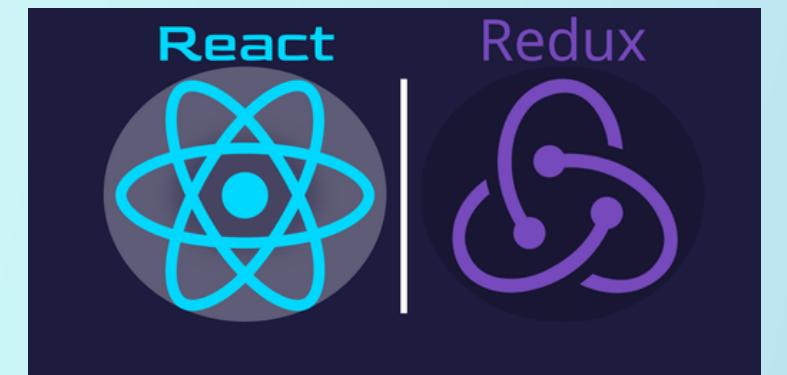
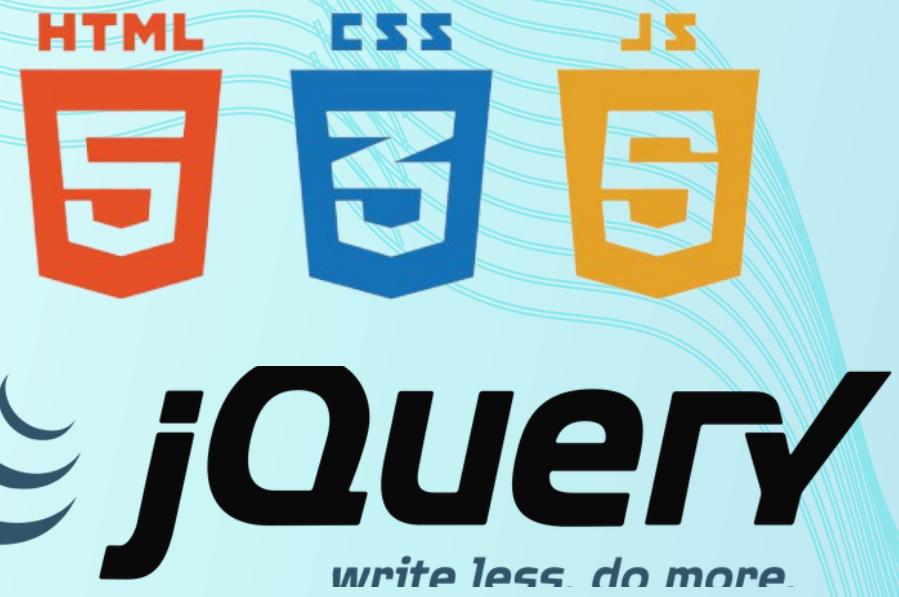
Week 0 will prepare you for your upcoming journey as a AI powered full stack developer

Proficiency in using AI tools, prompt engineering

## MODULE 1

# MASTER FRONTEND DEVELOPMENT

- Html
- Css
- Javascript
- Jquery
- Bootstrap
- Javascript ES6 concepts
- React with redux



# BONUS

- Hostinger AI Website Maker
- Uizard
- Art by Deep AI
- Copy AI
- ContentBot

# CAREER OUTCOMES

1. Frontend Developer
2. UI/UX Developer
3. Full Stack Developer
4. React Developer
5. Web Application Developer
6. JavaScript Developer
7. Frontend Engineer
8. User Interface Developer



HOSTINGER



## MODULE 2

# DATA STRUCTURES & ALGORITHMS WITH JAVA / PYTHON

- Java / Python
- Algorithms Analysis and Bit Manipulation
- Arrays and Linked Lists
- Stacks and Queues
- Searching and Sorting
- Sets and Dictionaries
- Greedy Algorithms
- Dynamic Programming
- Graph and Graph Algorithms



# BONUS

- Wordlift AI
- Article Forge
- RankMath SEO
- Optimizely

# CAREER OUTCOMES

1. Frontend Developer
2. UI/UX Developer
3. Full Stack Developer
4. React Developer
5. Web Application Developer
6. JavaScript Developer
7. Frontend Engineer
8. User Interface Developer



**WordLift**



**articleforge**



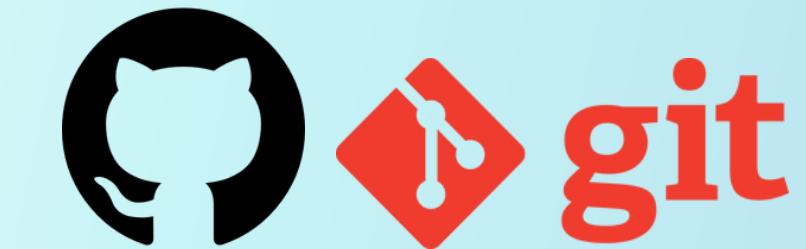
**Optimizely**



## MODULE 3

# DATABASE + DEVOPS

- Introduction to Database, NOSQL, MongoDB
- Setting up MongoDB, MongoDB Atlas
- Querying data using MongoDB's query language
- MongoDB Atlas setup and deployment
- Git
- Docker
- Kubernetes



## BONUS

- Postcards AI
- Sketch2code
- Appy Pie Website
- Tabnine



## CAREER OUTCOMES

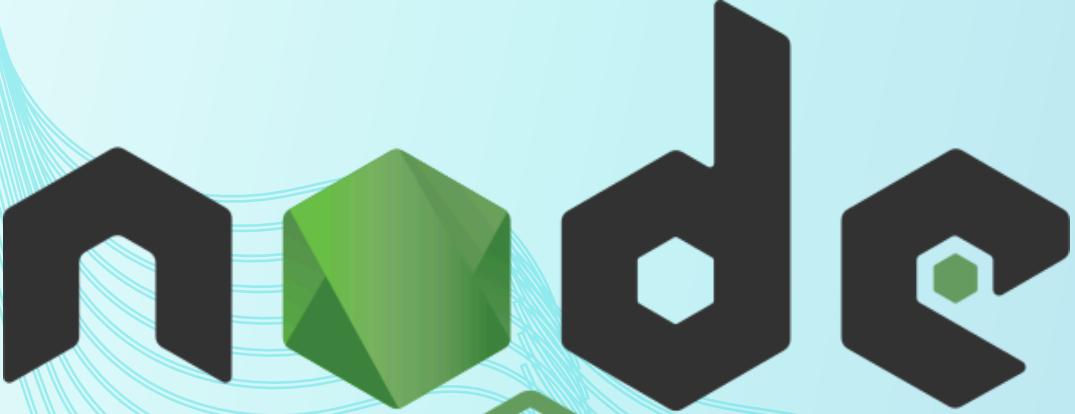
1. Backend Developer
2. Database Administrator
3. DevOps Engineer
4. Cloud Engineer
5. Software Engineer
6. Systems Engineer



## MODULE 4

# BACKEND FRAMEWORKS

- Explore the basics of Express.js to build robust and scalable backend applications.
- Building RESTful APIs
- Authentication and Error Handling



express



POSTMAN



# BONUS

- Mintlify
- Tricentis
- Snyk

# CAREER OUTCOMES

1. Backend Developer
2. Full Stack Developer
3. API Developer
4. Software Engineer
5. Web Developer
6. Systems Engineer



## MODULE 5

# SYSTEM DESIGN

### High-Level Design (HLD)

- Introduction to System Design
- Requirement Analysis
- Architecture Patterns
- System Components and Relationships
- Scalability and Performance
- Security Considerations
- Fault Tolerance and Reliability
- Data Storage and Management

### Low-Level Design (LLD)

- Intro to Low-Level Design (LLD)
- Detailed Component Design
- Class and Object Design
- Algorithms and Data Structures
- Database Schema Design
- API Design
- Concurrency Control
- Error Handling and Logging
- Testing and Quality Assurance
- Documentation

# CAREER OUTCOMES

1. Software Engineer
2. Full Stack Developer
3. Systems Architect
4. Technical Consultant

# UNIQUE LEARNING PROCESS

1

## Foundation

Access to learning management system, live classes which can also be rewatched to strengthen your foundation. Every weekend a special emphasis on creating projects which

2

## Crafting

Improving your practical skills, problem solving skills using assignments, projects to further improve your skills

3

## Mastery

Get 6 month work experience by contributing in real world projects and get feedback from industry experts through mock interviews and code reviews

# MARKET ANALYSIS

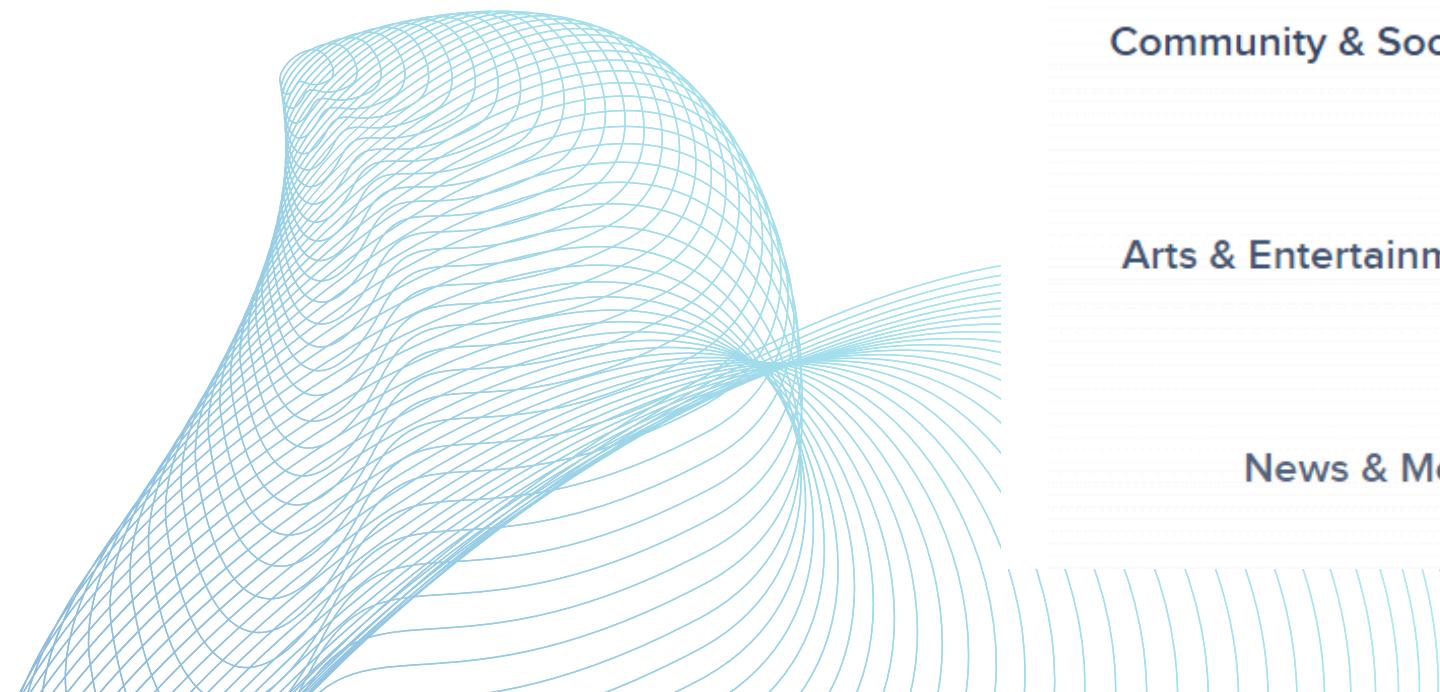
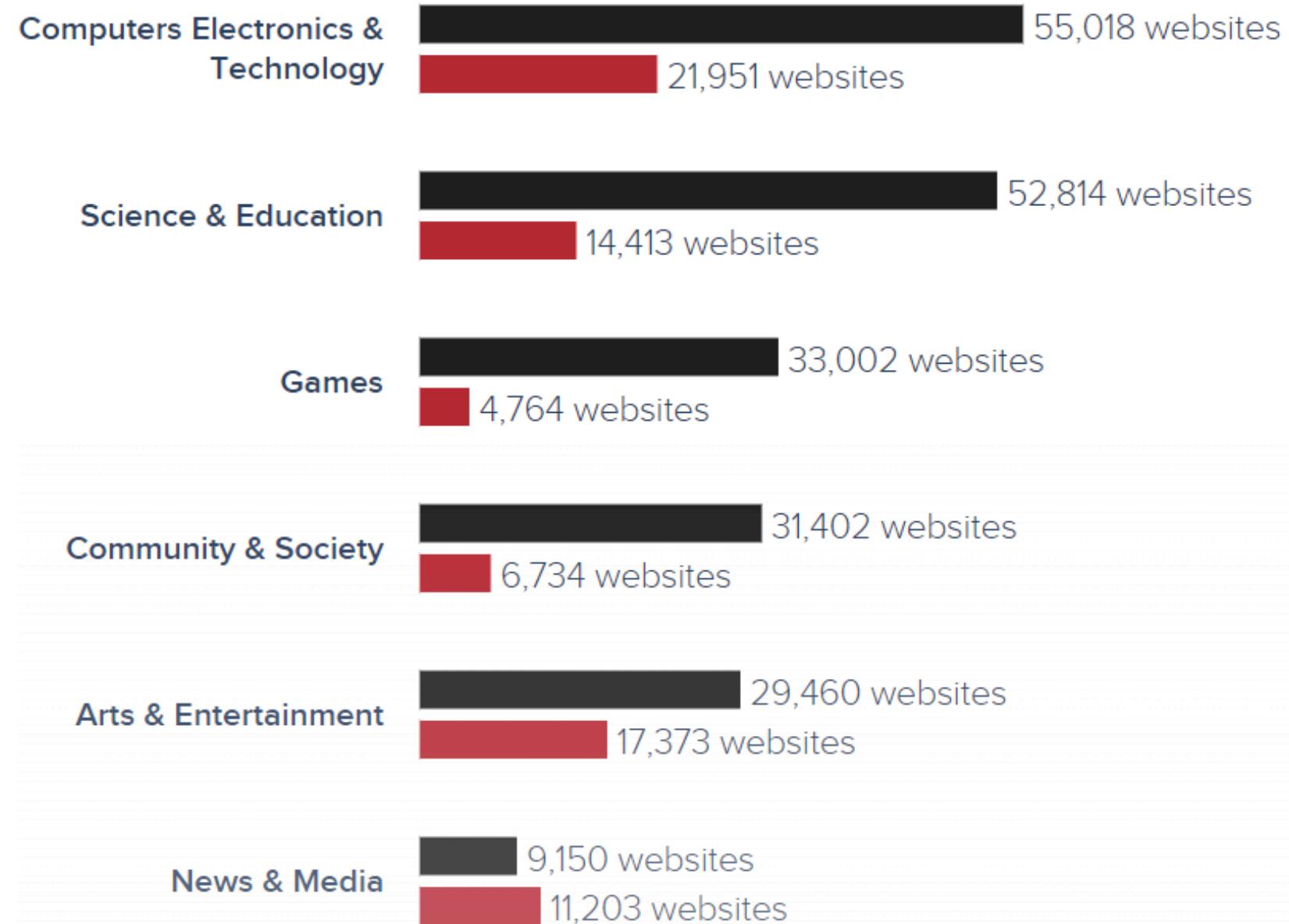


Angular JS

VS



React JS



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