

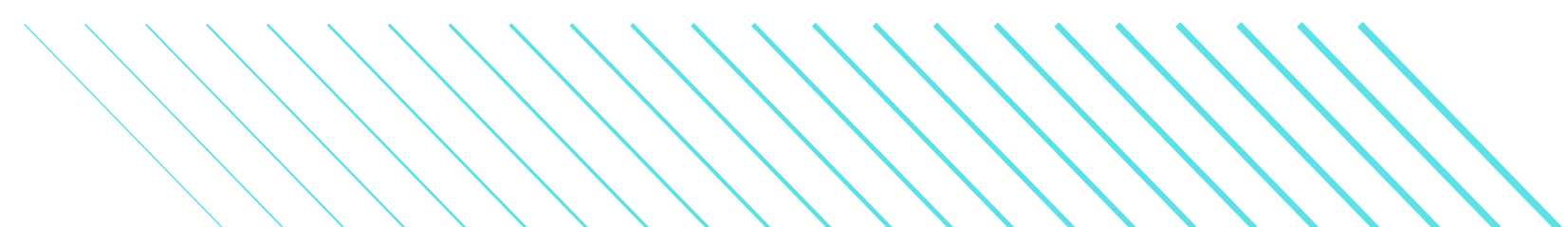
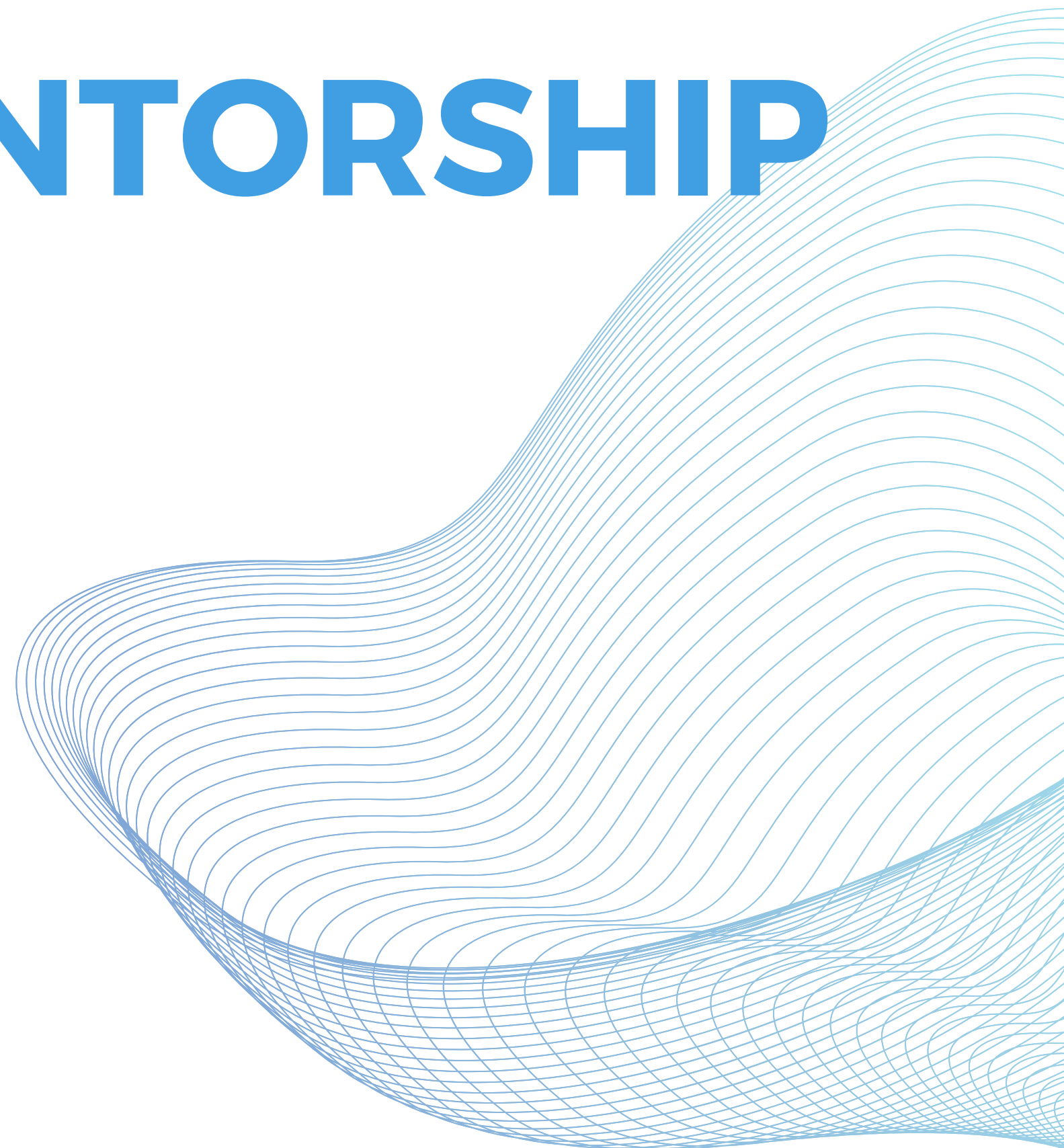


PROPEL MENTORSHIP

AI POWERED

**FULL STACK
DEVELOPMENT**

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



- 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

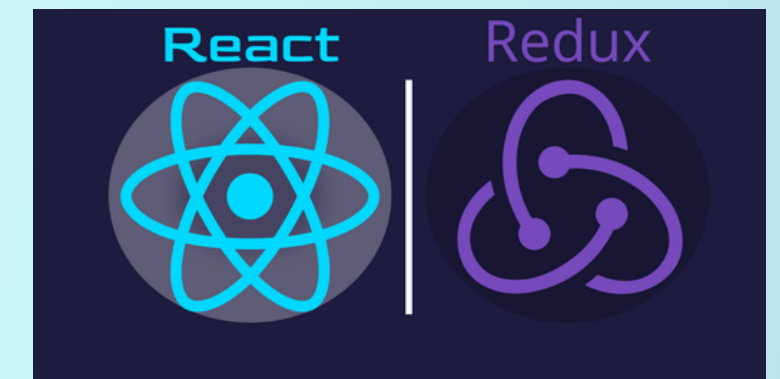


GitHub
Copilot

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**



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

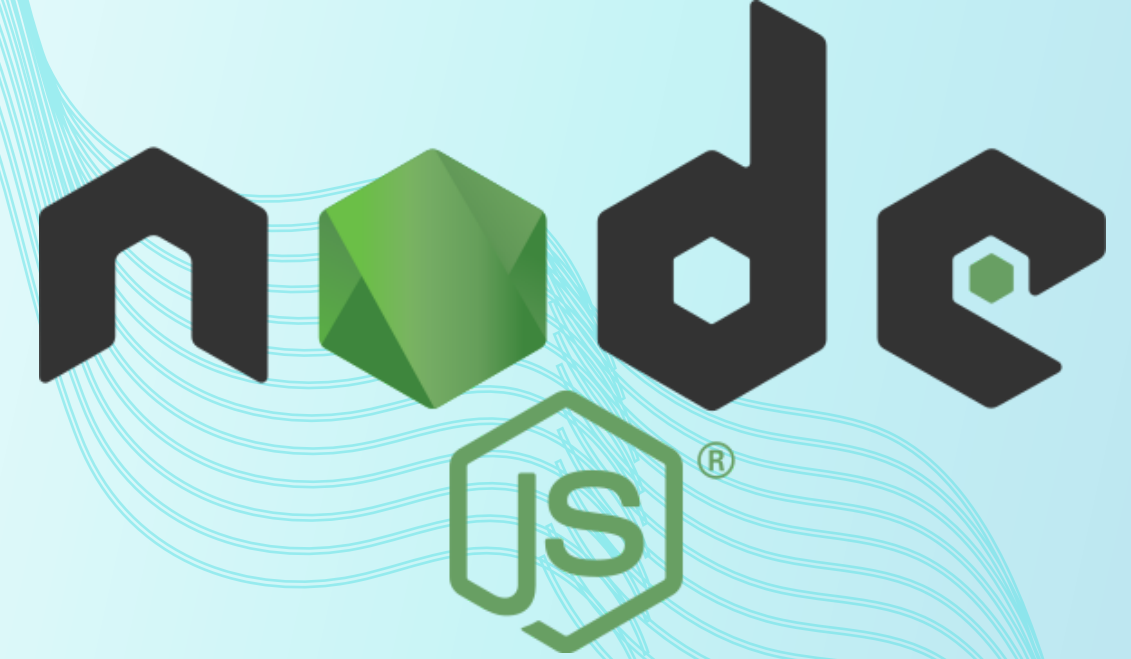
1. Backend Developer
2. Database Administrator
3. DevOps Engineer
4. Cloud Engineer
5. Software Engineer
6. Systems Engineer



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)

- 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

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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

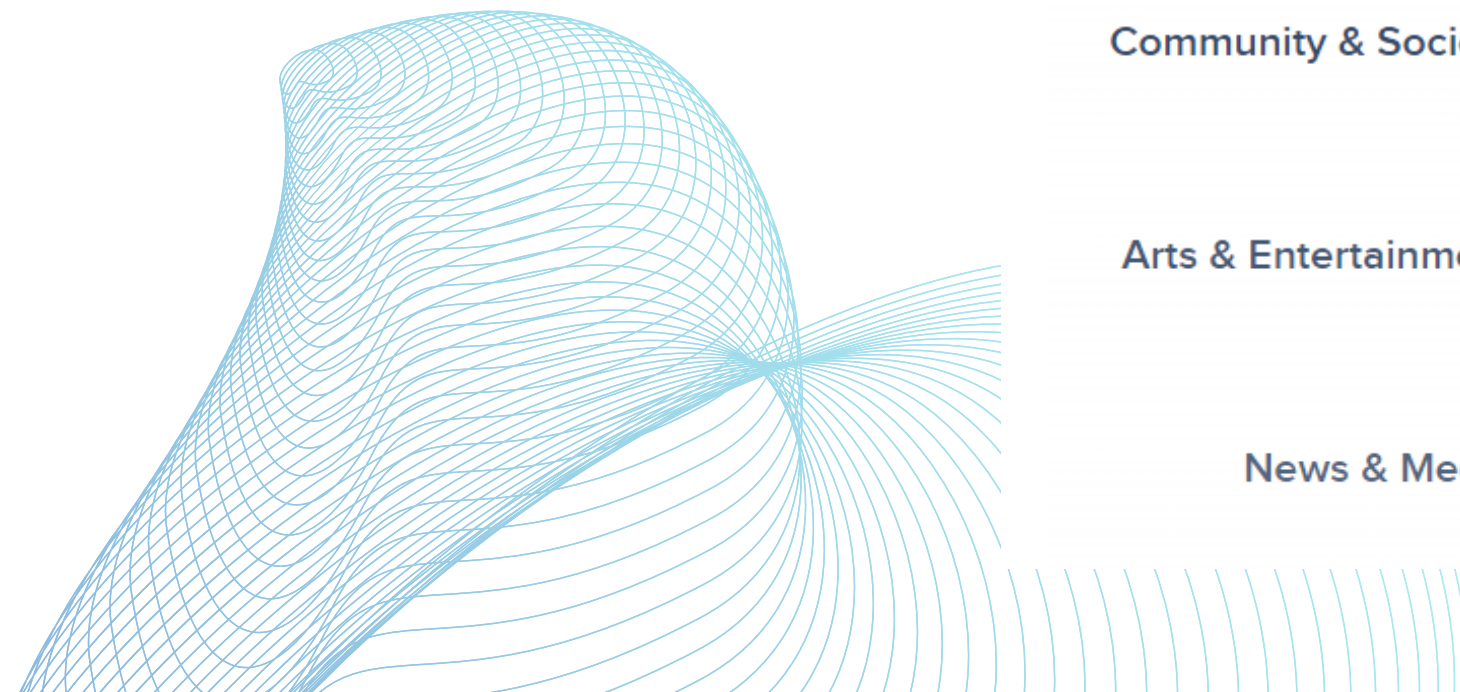
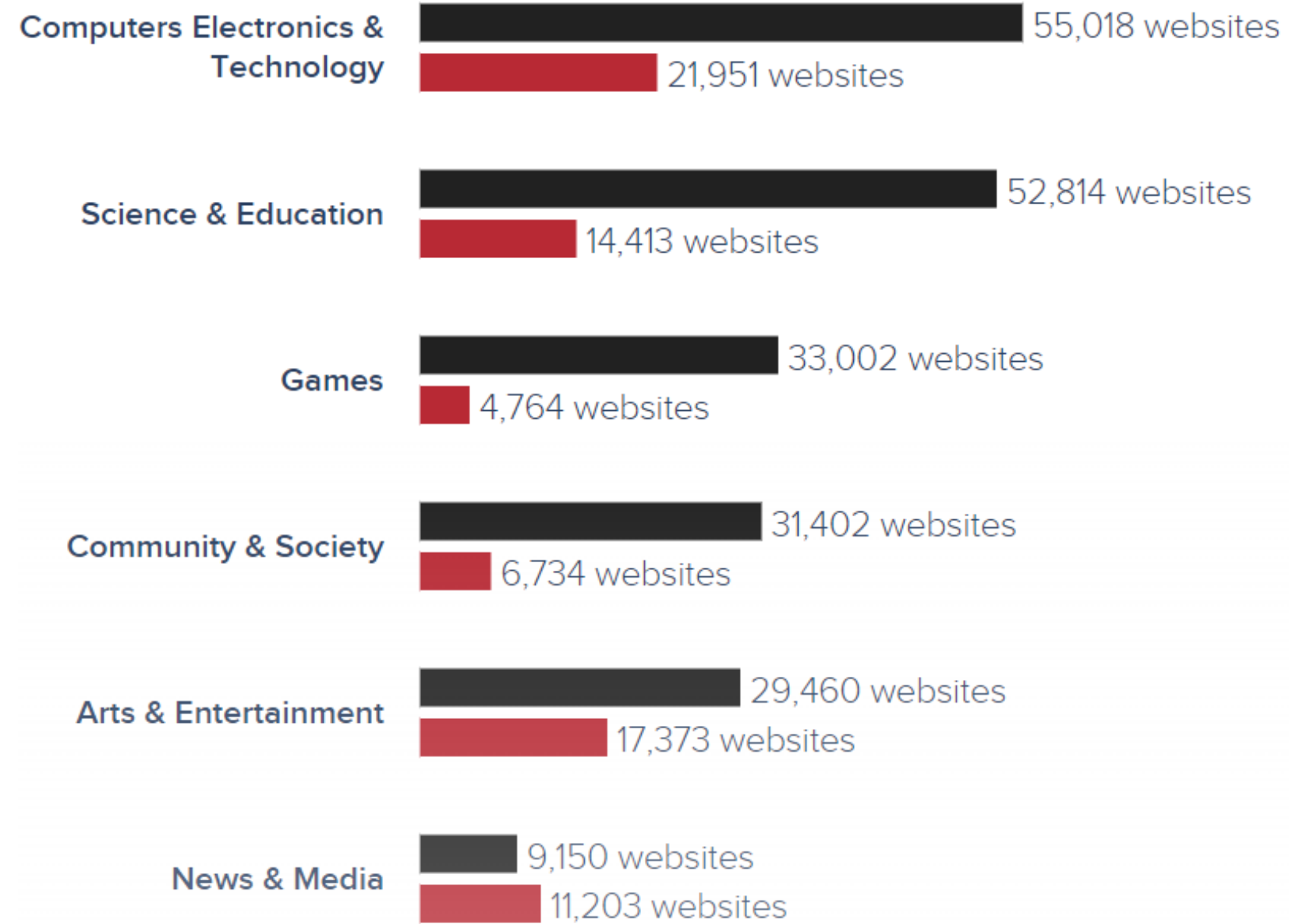
Improving your practical skills, problem solving skills using assignments, projects to further improve your skills

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



LET'S CONNECT WITH US!

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