

**Book for computer science:**

1. the pragmatic programmer.
2. Designing Web APIs ---- Brenda Jin, Saurabh Sahni & Amir Shevat.
3. Fundamentals of Software Architecture: An Engineering Approach Book by Mark Richards and Neal Ford.
4. Design It! From Programmer to Software Architect Book by Michael Keeling.
5. Software Development from A to Z: A Deep Dive Into All the ... Book by Olga Filipova.
6. Software Development, Design and Coding: With Patterns, Debugging, Unit Testing, and Refactoring Book by John F. Dooley.

**Book for UI Design**

Better Web Typography for a Better Web by Matej Latin.

Refactoring UI by Adam Wathan & Steve Schoger.

The Sketch Handbook by Christian Krammer.

Lean UX: Designing Great Products with Agile Teams Book by Jeff Gothelf and Josh Seiden.

Grid Systems in Graphic Design Book by Josef Müller-Brockmann.

User Friendly: How the Hidden Rules of Design Are Changing the Way We Live, Work, and Play Book by Cliff Kuang and Robert Fabricant.

**Book for Startup:**

Architect and Entrepreneur: A Field Guide to Building, Branding, and Marketing Your Startup Design Business.

Blue Ocean Shift: Beyond Competing - Proven Steps to ...Book by Renée Mauborgne and W. Chan Kim.

**Marketing books:**

The 1-Page Marketing Plan: Get New Customers, Make More Money, And Stand Out From The Crowd Deep Work by Cal Newport.

This Is Marketing: You Can't Be Seen Until You Learn to See Books by Seth Godin.

Building a StoryBrand: Clarify Your Message So Customers Will Listen.

The Road to Recognition: The A-to-Z Guide to Personal Branding for Accelerating Your Professional Success in The Age of Digital Media by Seth Price and Barry Feldman.

## Nice to Haves:

- Knowledge of OWASP security best practices
  - Experience with Docker
  - Knowledge of public cloud (e.g. AWS, Azure)
  - Experience in SQL query optimization
  - Knowledge of Service-Oriented-Architecture
  - Knowledge of microservices architecture
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- Unix: bash, piping, SSH, tools (CAT, AWK, SED), basics of standard input/output
  - Basic principles of database design
  - Basic experience with ORM
  - Software Design Patterns
  - Functional Programming Principles
  - Event Oriented (including asynchronous) Programming
  - Object-Oriented Programming
  - Prototype Based Programming
  - Coding Best Practice
  - Refactoring Best Practices
  - Test-Driven Development

chaos monkey approach

<https://netflixtechblog.com/>

Working experience with some of the following: OAuth, LDAP, ADExperience with writing unit and integration tests for front and back-end code, Service-oriented architecture

We use a wide range of tools including React, Angular, Vue, Electron, Python, Ruby, Java, .Net, Flask, Rails, Spring MVC, Node.js, Socket.io, Swift, Java, Kotlin, Docker, Kubernetes, Postgres, Elasticsearch, GraphQL, Redis, Google Cloud, AWS, and gRPC.

mobile 1st vs responsive design, snowpack, esbuild

PHPUnit, Mocha, Jest

WebRTC , ORTC, Jitsi

SSO / SAML Integration, Third Party CDN Integration, SMTP/API Email Integration

NGINX , Multi-tenant, Amazon API, Ali Express, Ebay api, Browser/Web API: Geolocation api, payment request api clipboard api, canva api, learn at least 20 browser api

Provides authentication using HOTP and TOTP applications such as FreeOTP, Google Authenticator or Authy.

Unit testing

Common service port: 80/443/27017/3306

Nameservers, CNAME, A , AAAA, etc, HTTP/1.0 /HTTP/2 and HTTP/3 ,DNS Working ,HTTP specification (headers, status codes), DNS Working. IPv4, IPv6, ADA compliant, Salsa20 ,

Imperative programming model, Declarative programming model, parallel programming,

Redux, use effect, React.memo useMemo for optimization, context api ,aunt design ,material design ,Gird, Flexbox, Firebase, Tailwind ,Next Js, Jamstack , Cron job, CSS Architecture, browser storage mechanism, caching on different layer, PWA, GraphQL

Memory mgt., I/O mgt, POSIX basics, Threads & concurrency, Learn About APIs REST, JSON APIs, HATEOAS, Open API Spec and Swagger, Authentication, GraphQL

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Caching, CDN, Server-side I. Redis II. Memcached, Client-side

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Web Security Knowledge. Hashing Algorithm, MD5 and why not to use it, SHA Family, Scrypt, Bcrypt, HTTPS, Content Security Policy, CORS, SSL/TLS, OWASP Security Risk

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CI/CD, Jenkins, GitLab, CircleCI, Bamboo, TeamCity, Travis CI, Buddy

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Design and Development Principles, SOLID, KISS, YAGNI, DRY, GOF Design Patterns, Domain-Driven Design, Test-Driven Development, debounce function

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More About Databases ,ORMs, ACID, Transactions, N+1 Problem, Data Replication Sharding Strategies, CAP Theorem, Database Normalisation, Indexes and how they work, MySQL profiling and query optimization, data integrity ,data aggregation and search, batch updates.  
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modal delete confirmation, approve system, upload and view image and file, Multi auth, relation in laravel, laravel with react js, Soft Delete in SQL, Email Server setup, image upload , activate/deactivate option, mega menu, multi-auth read write permission, single page website development, multiple route file, laravel backup and restore, Laravel activity log, math capture in laravel

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Laravel Base: Redis, Queues, Unit Testing, Task Scheduling, Notifications, Cache, Mail, Broadcasting, Request Lifecycle, Service Container, Service Providers, Facades Contracts

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Project: Blog ,News ,E-commerce multi and single vendors, personal portfolio

Done:.....

JavaScript:

Intersection Observer Javascript api

React এর সাথে যে যে থার্ড পার্টি টুলস আমরা ব্যবহার করবো -

Reach Router, Redux, React Redux, Axios, Material UI, React Strap, Chart JS, React Draft, WYSIWYG, NextJS, Custom API

WordPress, CPTUI ,ACF

cron job database backup, infinity scroll, headless browser, selenium, puppet, Cypress testing, BlurHash, discord bot, Memory leak, git subtree, Monorepo

Cyber security tools: Nmap, Aircrack ng

Business project:

Server health check

Software health check

Valid email check

Bulk amount email send application

Mini Project:

1. To do
2. Gallery

3. Clock (done)
4. Internet Status
5. Add to card
6. Push Notification
7. Quiz App
8. Drag and Drop
9. Birthday Calculator
10. Coming soon page(done)
11. Chat Box
12. Web Speech api
13. Portfolio Gallery Filter
14. Calculator
15. Javascript Game
16. JavaScript Data validation
17. Mouse over event animation
18. Push Notification
19. Content copy and copy protection
20. Check active bar
21. Service Worker(offline caching)
22. Query STRING.
23. Image Magnify Library
24. PopUp Modal

#### Advance CSS Project:

1. Smooth Scroll
2. Mobile menu
3. Mega Menu
4. Portfolio Gallery(Isotope)
5. Website loading animation
6. transparent
7. Verical/Horizontal Timeline Design
8. Progress Bar
9. Radial Menu design
10. CSS Neomorphism
12. Accordion
  
13. Neomorphism
14. [https://www.w3schools.com/howto/howto\\_js\\_accordion.asp](https://www.w3schools.com/howto/howto_js_accordion.asp)

Advance CSS property:

Snap Scrolling, CSS Units(em=parent, rem=root font size, vh, vw, wmax, vmin ), SVG,  
position: sticky/fixed,

Project:

1. E- commerce Site
2. Portfolio Site
3. Multi author blog site
4. Social Media Site
5. Game Design
6. ICANN API
7. SortUrl
8. Learning management System
9. Admin Panel Design
10. School Management System
11. Office Management System
12. Account Management System

JavaScript:

React Js, Redux

Node Js, Express Js

AWS: VPC, Lamda,

Redis, MongoDB, MySQL,

Firebase: <https://www.youtube.com/watch?v=fpOBwg0jdGk>

GitHub

Excel

CI/CD: Docker

Data Structure:

Algorithm:

Books:

SQL Antipatterns by Bill Karwin

Clean Code

Solid Principle

System Design

Scaling, Big query optimization

Power of Architecture pattern and Good coding structure

Routin:

Execution context, scope, event loop, promise functionality etc

JavaScript Under Hook

Dear Junior brother and sister from IUBAT Family,

This time some students are facing problems to get a good intern to prepare for a better job. To help you i had talked with multiple company and some of our senior Alumni, and had managed some opportunity so that we can support at least few student , But we found some issue that is barrier for you to get better job and internship, Please from now try to keep this in consideration before apply for any job or internship.

1. Always send a PDF file, not every HR is interested to open a docs file.
2. If some ask for CV then send CV, If asked for resume then send resume. Don't mix up with CV, Resume and Bio data.
3. For CSE student's it's mandatory to add a GitHub or any portfolio link. Don't say like “vai ami Github buje, project o ase kintu upload kora hy ni” this type of word helps to reject you finally because learning Git is a matter of a couple hours.

4. Be careful when you are copying past your friend CV. Don't write like you and your friend got the same rank in individual programming contents.
5. When sending email then must write down the subject , body properly and add email signatures with contact information.
6. As a CSE Student no need to write that you have MS office(MS Word, MS Excel, MS Power Point) skill and you know to use Windows operating system. Show your relevant skill based on job circular.
7. HTML ,CSS is not your programming skill, it's a front-end skill.
8. If you used someone's reference then ask them. I had added a screenshot of reference ,don't make a mistake like that, someone had used my reference without my concern with incorrect email and mobile number and that CV is on my desk !!!
9. Don't write like Xampp is a framework ,HTML ,CSS is language, Database ,Methodologies and O/S like that way, if not only reject you ,it's also help the company to total make blacklist of your University if you carry high CGPA and write down your skill like that way. (I don't have intention to personally hurt anyone but i believe we can learn from this and avoid this mistake in future)

No one is perfect but in this competitive world if we want to survive then we must have to upgrade ourselves.

\*\* The last day I asked for a resume but everyone had sent CVs, that is ok for me as I am part of the CSE family. But try to avoid this in other places. To write a better resume you can read this article:

<https://zety.com/blog/software-engineer-resume>

And good news those who had sent CVs for interns among those 2 students are going to get a Direct job offer if you pass the interview and 4 students will get internship opportunities.

Company Name: Digital Healthcare Solutions

Position Name: DevOps Engineer

Vacancy: 01

Location: Bashundhara RA, Dhaka (Currently working from Home)



Salary: 40k – 90k (Based on experiences and skills)

Time: 9 AM – 6 PM

Experience: 1 to 3 years

Education: BSc Graduate in CSE from any Reputed University.

Job Responsibilities:

1. Identify high level performance and scalability issues of the infrastructure, application and database
2. Troubleshoot infrastructure, application and database level faults
3. Automate, integrate and utilize all relevant platforms and systems for performance monitoring, fault handling and troubleshooting
4. Deliver overall system, service and application performance metrics as per the agreed internal Service Level Agreement KPIs (Key Performance Indicators)
5. Conduct periodic audit of the systems to make sure all necessary updates, systems and processes are in place to avoid any potential service outage
6. Design, dimension and provision of the cloud infrastructure in the most optimized way to provide best performance with the least amount of cost
7. Develop cloud architecture and strategy for the future
8. 24/7 availability for any system recovery, fault handling and troubleshooting
9. Strict performance monitoring, service uptime, Service Level Agreement enforcement and vendor management of 3rd party services
10. Enable, implement and facilitate continuous implementation, integration and deployment of new codes in a seamless and smooth manner.

Job Specifications:

1. Have strong programming skills – Bash, Python, PHP, Go etc.
2. Hands on experience and solid understanding of cloud infrastructure architecture, design, dimensioning, performance management and troubleshooting.
3. Knowledge and practical experience with Docker, Kubernetes, ECS, or similar clustering solutions. Hands-on experience on setting up Kubernetes platform, deploying microservices, other web applications and managing security.
4. Experience of building CI/CD pipelines using tools like Jenkins or Concourse-CI, GitLab CI, Circle CI etc.

5. Know what the use of config management systems like Ansible is, Puppet etc. Experience of building CI/CD pipelines using tools like Jenkins or Concourse-CI, GitLab CI, Circle CI etc.

6. Vast experience with monitoring, logging and operations tools like ELK, EFK, Graylog, New Relic, Prometheus and Graphana etc.

7. Particularly good understanding of the advantages of Infrastructure-as-Code with experience in designing and implementing cloud infrastructure using IAC tools like Terraform or its equivalents.

8. Have hands on experience of managing large scale Database Management system (PostgreSQL, MySQL, AWS Redshift) and good to have knowledge of SQL.

9. Network fundamentals (DHCP, DNS, ARP, VLANs, TCP/IP), HTTP protocol.

Upon fulfilling the criteria mentioned above, please apply in full confidence by 25 December 2020 to careers@dh.health. E-mail subject should be 0806. Please do not apply if you don't fulfill the requirements mentioned in the Job Specification section.

Advice for current students ....

Time duration :

1 days

#01 - Css code Generator

-> <https://webcode.tools/css-generator>

-> <https://html-css-js.com/css/generator/>

#02 - Css Button Generator <https://www.bestcssbuttongenerator.com/>

#03 Neomorphism CSS Generator

<https://neumorphism.io/>

#04 Glassmorphism CSS Generator

<https://glassmorphism.com/>

#05 - Box Shadow -

-><https://getcssscan.com/css-box-shadow-examples>

-><https://tobiasahlin.com/blog/layered-smooth-box-shadows/>

#06 - Shape Divider <https://www.shapedivider.app/>

#07 - CSS Traingle Generator

<http://apps.eky.hk/css-triangle-generator/>

#08 - Animista - <https://animista.net/>

#09 - <https://loading.io>

#10 - Best img & Box hover Effect - <https://ciar4n.com/izmir/>

#11- CSS Animation Kit <https://angrytools.com/css/animation/>

#12 -Button & Loading (CSS Wand) - <https://www.csswand.dev/>

#13 - Woah.css - <http://www.joerezendes.com/projects/W...>

#14 - Catto.css - <https://cattocss.com/animations.html>

#15 - Animate.css - <https://daneden.github.io/animate.css/>

#16 - Animation Library -<http://animation.kaustubhmenon.com/>

#17 - img & Box hover Effect <https://imagehover.io>

#18 - Magic Animation - <https://www.minimamente.com/project/magic/>

#19 - <http://cssanimation.io/>

#20 - Animista - <https://animista.net/>

===== আরও কিছু ANIMATION =====

1] Text Effect & Text Animation <http://cssanimation.io/>

2] All in one css <https://minimamente.com/example/magic...>

3] Mostion CSS <http://pavlyukpetr.com/awesome>

4] <http://kristofferandreasen.github.io/>

5] <http://all-animation.github.io>

6] <http://vivify.mkcreative.cz>

7] <http://bouncejs.com/>

8] <http://animista.net/>

9] <https://erictreacy.github.io/mimic.cs>

10] <https://zurb.com/playground/motion-ui>

## **Jr. Software Engineer/ Software Engineer - Core Operations (Cloud)**

### **Intercloud Limited**

[View all jobs of this company](#)

#### **Vacancy**

Not specific

#### **Job Responsibilities**

- Working closely with Openstack and various process management frameworks.
- Learning about virtualization, threads, networking internals of linux systems.
- Deep dive into the codebase of ContainerD and libvirt.
- Learn the internals of various OpenStack modules like Nova, Neutron, Glance and work with the underlying codebase.
- Test, Tweak, Analyze and Integrate the OpenStack components to work with our existing platform.
- Learn and Implement OpenStack and Data Center Networking and various Software Defined Networking(SDN) Layers.
- Design, develop, and test new features in Python, Go and React on our OpenStack deployment and Brilliant Cloud Platform.
- Perform test-driven development using a variety of DevOps tools and scripting languages.
- Implementing Ansible, Jenkins Automation to create deployment automation.
- Collaborate on improvements and communicate with other team members.

#### **Employment Status**

Full-time

#### **Educational Requirements**

- Bachelor of Science (BSc) in CSE, EEE, ECE, ETE

#### **Experience Requirements**

- 1 to 2 year(s)

**Additional Requirements**

- Age 22 to 28 years
- Both males and females are allowed to apply
- Contest/Competitive Programming is must.
- Fluency in one or more programming language like C, C++, Go, Java, Python.
- Basic Web Development skills is a plus(HTTP verbs, HTML, CSS).
- Two or more National/International Level Programming Competitions is a plus.
- Solid understanding of Data Structures and Algorithms

**Job Location**

Dhaka

**Salary**

Negotiable

**Compensation & Other Benefits**

- Mobile bill, Medical allowance, Provident fund, Weekly 2 holidays
- Lunch Facilities: Full Subsidize
- Salary Review: Yearly
- Festival Bonus: 2