



FULL STACK CLOUD DEVELOPER PROGRAM

RC™ **Ramaq
Chools**
Consulting & Training

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INTRODUCTION TO FULL STACK CLOUD DEVELOPMENT

Hello, aspiring Full Stack Cloud Developer! The Full Stack Cloud Developer program at Chools is a comprehensive training program that teaches you how to create web applications that run on the cloud, using various technologies and tools. A full stack cloud developer is someone who can work with both the front-end and the back-end of a web application, as well as the cloud infrastructure and services that support it. You will learn how to use HTML, CSS, JavaScript, React, Bootstrap, Node.js, Django, MySQL, Docker, Kubernetes, Open Shift, and more to build, deploy, and manage cloud-native applications. You will also work on multiple labs and projects to build your GitHub portfolio.





Why Choose Chools?

Numbers That Speak for Themselves:

- 10,000+ Successful Alumni: Join a network of impactful professionals.
- 95% Job Placement Rate: Secure your future with Chools' proven track record.
- 20+ Years of Excellence: Trust in a legacy of education and industry expertise.
- 200+ Industry Partnerships: Leverage our connections for real-world insights and opportunities.

What Sets Us Apart?


- **Expert Instructors:** Learn from industry veterans with hands-on experience.
- **Hybrid Learning Model:** Balance online flexibility with in-person engagement.
- **Comprehensive Curriculum:** Stay ahead with courses designed meet market demands.
- **Community and Networking:** Be part of an active community of learners and professionals.

Why Can Apply?

Eligibility Criteria:

- **Educational Background:** A bachelor's degree or equivalent in computer science, engineering, mathematics, or a related field.



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- **Skills:** Basic understanding of programming concepts and languages, such as HTML, CSS, JavaScript, Python, etc.
 - **Familiarity:** Familiarity with web development technologies, such as React, Django, Bootstrap, etc.

Program Overview

The Full Stack Cloud Developer Program at Chools provides an extensive education in web development and cloud computing. Our curriculum covers a wide range of topics to ensure a thorough understanding, combining theoretical knowledge with practical, hands-on experience.

Learning Mode:

- **Hybrid Learning Model:** Combines online learning with in-person sessions for flexibility and interactive engagement.
- **Interactive Sessions:** Includes live webinars, workshops, and Q&A forums with expert instructors and peers.
- **Self-paced Learning:** Access course materials anytime, allowing you to learn at your own pace.



Skills Learned

- **Web Analytics Fundamentals:** Understanding core web analytics concepts and strategies.
- **Tool Configuration:** Setting up and configuring web analytics tools like Google Analytics, Adobe Analytics, and Microsoft Clarity.
- **Data Analysis:** Analyzing web analytics data to understand audience behavior and preferences.
- **User Experience Optimization:** Improving website design, usability, and user experience based on analytics insights.
- **Marketing Strategy Optimization:** Using web analytics data to optimize online marketing strategies and KPIs.
- **Technical Skills:** Implementing tracking codes, setting up goals, and creating custom reports.
- **Reporting and Visualization:** Creating clear and actionable web analytics reports and dashboards.

Job Positions and Opportunities

Career Paths:

- Web Analytics Specialist
- Digital Marketing Analyst
- SEO Analyst
- Data Analyst
- Conversion Rate Optimization (CRO) Specialist
- Marketing Manager

Industry Demand:

- High demand across various sectors
- Competitive salaries
- Strong growth potential

Key Industry Verticals

Skill Application Areas:

- Technology
- Finance
- Healthcare
- Retail
- Marketing
- Telecommunications
- Education
- Logistics and Supply Chain
- Government and Public Services



Curriculum Highlights:

- **Fundamental Knowledge:** Core principles of web development and cloud computing.
- **Advanced Techniques:** In-depth understanding of front-end, back-end, and cloud infrastructure technologies.
- **Real-World Applications:** Practical projects and case studies.
- **Portfolio Development:** Multiple labs and projects to build your GitHub portfolio.


Professional Development:

- **Continuous Learning:** Stay updated with the latest trends in full stack and cloud development.
- **Networking Opportunities:** Connect with industry experts, peers, and alumni.
- **Ethical Considerations:** Learn best practices and industry standards.

Program Objectives

- Master technical skills in full stack cloud development.
- Implement best practices for designing, developing, and managing web applications on the cloud.
- Explore various web development technologies and cloud services.
- Address real-world web development and cloud computing challenges.
- Understand best practices in full stack cloud development.
- Foster continuous learning.
- Encourage teamwork and collaboration.
- Prepare for advanced roles in full stack cloud development.

Expected Outcomes

- Proficiency in web development and cloud computing tools and techniques.
 - Practical experience through hands-on projects.
 - Strong analytical and problem-solving skills.
 - Application of best practices in full stack cloud development.
 - Innovation in web application and cloud solutions.
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PROGRAM OUTLINE

Stage 1: Fundamentals of Web Development

1. Introduction to HTML & CSS

- Learn the basics of HTML for creating web pages.
- Understand CSS for styling and layout.
- Explore best practices for web development.

2. JavaScript Basics

- Understand the fundamentals of JavaScript.
- Learn to manipulate the DOM and handle events.
- Implement basic interactive features.

Stage 2: Advanced Front-End Development

3. React and Front-End Frameworks

- Learn to build interactive and dynamic user interfaces with React.
- Understand state management and component lifecycle.
- Explore other front-end frameworks and libraries.

4. Responsive Design with Bootstrap

- Understand the principles of responsive web design.
- Use Bootstrap to create mobile-first websites.
- Implement grid systems and responsive elements.

Stage 3: Advanced Back-End Development

5. Node.js and Express

- Learn to build server-side applications with Node.js.
- Use Express to create RESTful APIs.
- Understand middleware and routing.

6. Back-End Development with Django

- Explore Django for building robust back-end systems.
- Implement authentication and authorization.
- Connect Django with databases like MySQL.

Stage 4: Cloud Infrastructure and Services

7. Introduction to Docker

- Learn containerization with Docker.
- Create Docker images and containers.
- Understand Docker Compose and orchestration.

8. Kubernetes and Open Shift

- Deploy and manage containerized applications with Kubernetes.
- Explore Open Shift for cloud infrastructure management.
- Implement CI/CD pipelines.



PROGRAM OUTLINE



Elective Modules

9. Data Ethics and Privacy

- Ethical considerations, privacy laws, and compliance strategies.

10. AI Integration for Web Applications

- Implementing AI solutions in web applications.

11. Big Data Solutions in Cloud

- Managing big data applications in cloud environments.

12. Cloud DevOps Practices

- CI/CD pipelines, automation, and containerization with Docker and Kubernetes.

13. Project Management in Cloud Development

- Leading cloud development projects and ensuring successful delivery.

14. IoT Integration for Web Applications

- Integrating web applications with IoT devices.

Enrollment Now Open!

Take the first step towards becoming a full stack cloud developer. Enroll in our Full Stack Cloud Developer Program and enhance your career with Chools.