



ANITA B.ORG 2024
GRACE HOPPER
CELEBRATION

me
+we

Demystifying Full Stack Development

Agenda

1. Introduction
2. What is Full Stack Development
3. Skills Required to Excel in Full Stack Development
4. Challenges and Opportunities
5. Social Responsibilities in Full Stack Development
6. Your Roadmap to Becoming a Full Stack Developer
7. Key Takeaways

About Me

- Senior Software Engineering Manager
- PhD in Computer Science
- Full Stack Developer since 2010
- AWS Certified
- Mom of two boys





What is Full Stack Development?

Full Stack Development

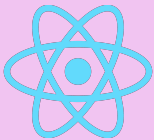
- Encompasses the entire technology stack
- User interface design to server-side logic and database management.
- Responsible for designing, implementing, and maintaining all aspects of a web application
- Possess a broad skill set

Required Skills

Technical Skills

Frontend Technologies

- HTML
- CSS
- JavaScript
- JS Frameworks



Backend Technologies

- Node.js
- Python
- Java
- PHP
- GoLang
- C#
- Rust
- etc



Databases

- SQL
- NoSQL
- Caching systems



redis

Other tools and technologies

- Version Control
 - Git
- Web Servers
 - Nginx, Apache, etc
- Cloud Platforms
 - AWS, Azure, Google Cloud
- Containerization
 - Docker, Fargate, Kubernetes



Soft Skills

- Problem-Solving
- Communication
- Time Management
- Adaptability



Challenges and Opportunities

Challenges

- Complexity
- Keeping Up with Rapid Technological Changes
- Balancing Priorities and Deadlines

Opportunities

- Versatility
- Ability to Implement End-to-End Solutions
- Collaboration with Different Teams
- Continuous Learning and Skill Development

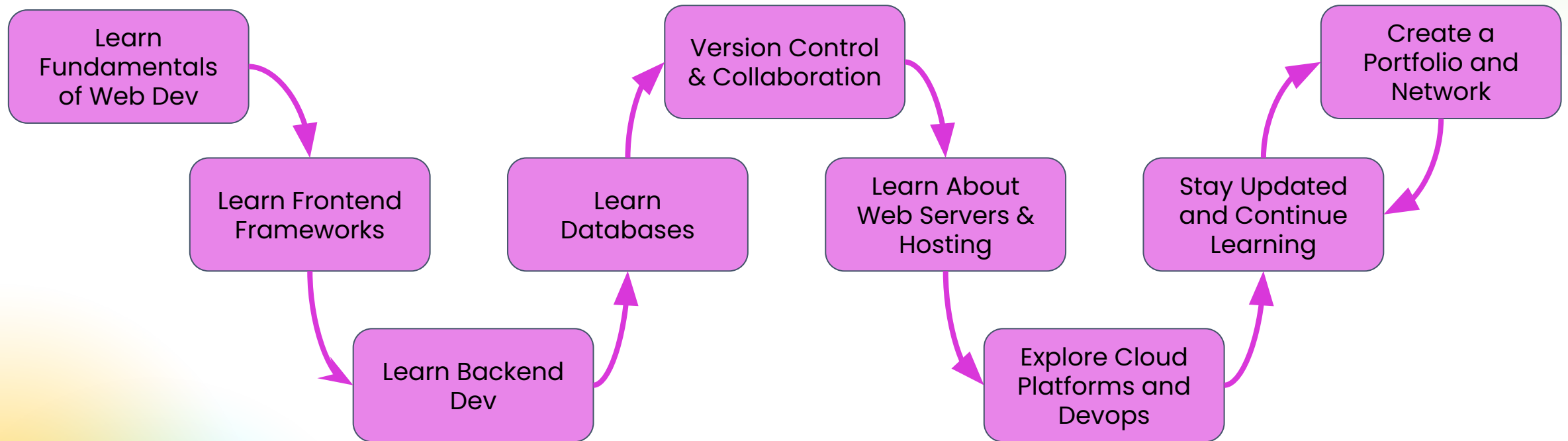
Social Responsibilities in Full Stack Development

Social Responsibilities

- Importance of Social Responsibilities
 - Shaping technology that impacts individuals and society
- Ensuring Inclusivity and Accessibility
 - Prioritize building inclusive and accessible applications
- Protecting User Privacy and Security
 - Uphold the privacy rights of users
- Responsible Data Handling and Usage
 - Responsibility of collecting, storing, and processing user data

Roadmap

Roadmap to Becoming a Full Stack Developer



Takeaways

Key Takeaways

- Understand the breadth of technologies and responsibilities in full stack development.
- Recognize challenges and opportunities across the technology stack.
- Prioritize inclusivity, privacy, security, responsible data handling.
- Develop a personalized roadmap for career advancement in full stack development.

Thank you

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