

WEEKS

01	02	03	04
05	06	07	08
09	10		

CERTIFICATION
OPTIONS



FRONT-END WEB
DEVELOPER
PROFESSIONAL
CERTIFICATE

CURRICULUM FOCUS

Front-End Web and Application Fundamentals and Software Development Concepts

CORE COMPETENCIES

- Introduction to web & app development.
- Fundamentals of UI/UX design and Agile development principles.
- Principles of program logic.
- Introduction to MERN.
- Introduction to testing, GitHub, and the DOM.
- Styles and Bootstrap.
- Introduction to cybersecurity and recursion.
- Introduction to JavaScript ES6, React.js, Node.js and JSX.
- Working with lists in React.
- Working with simple & react components.

WEEKS

		11	12
13	14	15	16
17	18	19	20

CURRICULUM FOCUS

Back-End Web and Application Fundamentals, Testing, and Quality Assurance

CORE COMPETENCIES

- Hands-on program logic and real-world business-based solutions.
- Introduction to testing and quality assurance.
- Application servers, Databases using MongoDB, and storage.
- Containers and cloud basics.
- API fundamentals & security concerns.
- Understanding architectural patterns.
- DevOps & testing.

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- Project portfolio using self-branding principles for freelance, entrepreneurship, or full-time placement.

CURRICULUM FOCUS

Software Development Fundamentals Using Python and Java

PYTHON CORE COMPETENCIES

- Fundamental terms and definitions (e.g. compilation vs. interpretation.)
 - Python's logic and structure (e.g. keywords, instructions, indentation.)
 - Literals, variables, and numeral systems, operators, and data types.
 - I/O operations, control flow mechanisms (conditional blocks and loops.)
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CERTIFICATION
OPTIONSCERTIFIED ENTRY-LEVEL
PYTHON PROGRAMMER

- Data collections (lists, tuples, dictionaries, strings.)
- Functions (decomposition, built-in and user-defined functions.
- Organizing interaction between functions and their environment generators, recursion.
- Exceptions (exception handling, hierarchies.)
- The essentials of Python programming language syntax, semantics, and the runtime environment.

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CURRICULUM FOCUS

Professional, Social and Self Awareness, and Emotional Intelligence Development

CORE COMPETENCIES

- Learn to develop and demonstrate soft skills while being exposed to thought leaders and visiting organizations from all industries.
- Emotional Intelligence

WEEKS

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GOOGLE UX DESIGN CERTIFICATE PROGRAM INTEGRATION

Understanding How User Experience Drives Software Development

CORE COMPETENCIES

- Foundations of user experience (UX) design.
- Start the UX design process: Empathize, Define, and Ideate.
- Build wireframes and low-fidelity prototypes.
- Conduct UX research and test early concepts.
- Create high-fidelity designs and prototypes in Figma.
- Responsive web design in Adobe XD.
- Design a user experience for social good and prepare for jobs.

UX DESIGN CERTIFICATE PROGRAM



234 HOURS

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