

# Youssef Yousry | Full Stack Engineer, Security Engineer

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## Profile

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Dedicated and skilled Software Engineer with expertise in Cyber Security and a comprehensive background in Networks and IT. Adept at crafting robust software solutions while seamlessly managing and optimizing system infrastructure. Possessing a passion for leveraging technology to drive efficiency, productivity, and innovation. Proven ability to collaborate effectively across interdisciplinary teams and adapt to dynamic environments. Committed to staying abreast of emerging technologies and industry trends to deliver cutting-edge solutions. Also, As a seasoned Security Engineer, I bring a blend of technical expertise, strategic insight, and proactive problem-solving skills to safeguard digital assets and mitigate Cybersecurity threats. With a solid foundation in network security, cryptography, and risk assessment, I am dedicated to ensuring the confidentiality, integrity, and availability of critical information systems. My proficiency extends across various domains, including cloud security, application security, and incident response, enabling me to develop robust defense mechanisms tailored to diverse environments.

## Summary

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As a versatile Security & IT professional with a robust background in both software engineering and system administration, I bring a unique blend of technical prowess and problem-solving acumen. I'm a highly motivated and determined engineer with a strong capacity for problem-solving. I'm well qualified to help in achieve project targets

## Education

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Bachelor's degree in aviation safety and Flight Management | Helwan university Garden City, Cairo | 2022, 2025

El Shaheed Nabil ElSayed Experimental Language School (High School) | 2019, 2022

## Skills

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|--|-------------------|
| • Linux+   | • Packet Tracer   |
| • Security+  | • Python          |
| • N+   | • Ruby            |
| • MCSA   | • JavaScript      |
| • virtualization technologies (Virtual Box, VMware, Hyper-V) | • TypeScript      |
| • Azure  | • Bash Scripting  |
| • Wireshark  | • Batch Scripting |
| • NMAP   | • Windows         |

- HTML5
- CSS3
- Sass
- React.js
- Node.js
- express.js
- Vue.js
- MongoDB
- SQL

## Languages

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Arabic : Native Speaker,    English : Professional,    Deutsch : A2

## Work Experience

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**Security Researcher | Bug Bounty hunter** (Freelancing) - Present  
**Bugcrowd**, CL, USA

**Full stack Engineer (Part Time)** October 2023 - December 2023,  
**GrowIntern**, Kolkata, India

- Developed and maintained responsive websites and web applications using HTML5, CSS3, JavaScript and Reactjs ensuring cross-browser compatibility and optimal performance.
- Collaborated with designers to translate wireframes into pixel-perfect frontend code, seamlessly integrating aesthetics and functionality. Implemented modern frontend frameworks like React, Angular, or Vue.js, creating dynamic and interactive user interfaces to enhance user engagement.
- Optimized website performance through code minification, image optimization, and lazy loading techniques, improving loading times and user satisfaction.
- Developed robust backend systems using server-side languages like JavaScript, Nodejs efficiently processing and storing data, Designed and implemented RESTful APIs to facilitate seamless communication between frontend and backend components, enabling smooth data flow and interaction with databases.
- Designed and implemented secure user authentication, RESTful APIs, and database integration, ensuring smooth communication and data flow, Utilized databases such as MySQL, MongoDB to store and retrieve data, optimizing database queries for improved performance and data integrity.

**Frontend Developer (Part Time)** August 2023 - October 2023  
**LetsGrowMore**, India

- Developed and maintained responsive websites and web applications using HTML, CSS, and JavaScript, ensuring cross-browser compatibility and optimal performance.
- Collaborated closely with designers to translate wireframes and mockups into pixel-perfect frontend code, ensuring a seamless integration of aesthetics and functionality.

- Implemented modern frontend frameworks such as React to create dynamic and interactive user interfaces, enhancing user engagement and overall user experience.
- Optimized website performance by employing best practices such as code minification, image optimization, and lazy loading techniques, resulting in improved loading times and enhanced user satisfaction.

### **Frontend Web Developer (Internship)** August 2023 - October 2023

Codsoft, Kolkata, India

- Developed and maintained responsive websites and web applications using HTML5, CSS3, JavaScript and Reactjs ensuring cross-browser compatibility and optimal performance.
- Implemented modern frontend frameworks such as React to create dynamic and interactive user interfaces, enhancing user engagement and overall user experience.
- Optimized website performance by employing best practices such as code minification, image optimization, and lazy loading techniques, resulting in improved loading times and enhanced user satisfaction

### **Frontend Web Developer Intern** July 2023 -August 2023

CodeClause, Pune, India

- Developed and maintained responsive websites and web applications using HTML, CSS, and JavaScript, ensuring cross-browser compatibility and optimal performance.
- Collaborated closely with designers to translate wireframes and mockups into pixel-perfect frontend code, ensuring a seamless integration of aesthetics and functionality.
- Implemented modern frontend frameworks such as React to create dynamic and interactive user interfaces, enhancing user engagement and overall user experience.
- Optimized website performance by employing best practices such as code minification, image optimization, and lazy loading techniques, resulting in improved loading times and enhanced user satisfaction.

## **PROJECTS**

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### **URL – Shortener**

The Ruby URL Shortener project aimed to create a robust and efficient tool for shortening long URLs into concise, shareable links. Leveraging the Ruby programming language and accompanying frameworks and libraries, the project focused on providing a user-friendly interface for generating short URLs, as well as managing and tracking usage statistics.

#### **Key Features:**

1. **Shortening Algorithm**: Implemented a custom URL shortening algorithm to generate unique and compact short URLs from long input URLs. The algorithm ensured collision avoidance and provided a deterministic mapping between long and short URLs.
2. **Web Interface**: Developed a web-based user interface using Ruby on Rails or Sinatra framework for users to input long URLs and obtain corresponding short URLs. The interface was designed to be intuitive, responsive, and visually appealing, enhancing user experience.

3. **Redirection Mechanism** : Implemented a redirection mechanism to seamlessly redirect users from short URLs to their corresponding long URLs. The mechanism ensured reliability, performance, and proper handling of edge cases such as expired or invalid short URLs.
4. **User Authentication and Authorization** : Integrated user authentication and authorization functionalities to restrict access to URL shortening and management features, ensuring security and privacy of user-generated short URLs.
5. **Analytics and Tracking** : Incorporated analytics and tracking capabilities to monitor usage statistics of short URLs, including click counts, geographic distribution of users, and referrer information. These insights provided valuable feedback for optimizing link sharing strategies and assessing the effectiveness of marketing campaigns.
6. **API Support** : Exposed a RESTful API to programmatically interact with the URL shortener service, enabling integration with third-party applications, automation of URL shortening tasks, and bulk operations.
7. **Data Persistence** : Utilized a robust database system, such as Sqlite, to store mapping between long and short URLs, user preferences, and usage statistics securely and efficiently.
8. **Error Handling and Validation** : Implemented comprehensive error handling and validation mechanisms to ensure data integrity, prevent misuse, and provide informative feedback to users in case of invalid input or system errors.
9. **Documentation and Deployment Guidelines** : Provided comprehensive documentation and deployment guidelines to facilitate setup, configuration, and deployment of the URL shortener project in various environments, including development, staging, and production.

## PyScrapper

The Python Web Scraper project aimed to automate the extraction of data from various websites efficiently and reliably. Leveraging Python's powerful libraries such as BeautifulSoup, Requests, and Selenium, the scraper was designed to navigate through web pages, extract structured data, and store it in a structured format for further analysis or integration with other systems.

### Key Features:

1. **Scalable Data Extraction** : The scraper was capable of handling dynamic web pages and efficiently extracting data from HTML content, including text, images, and metadata.
2. **Customizable Configuration** : Users could configure the scraper to target specific elements on web pages using CSS selectors or XPath expressions, allowing flexibility in defining extraction rules.
3. **Robust Error Handling** : The scraper implemented robust error handling mechanisms to gracefully handle exceptions such as network errors, page not found, or unexpected HTML structures, ensuring uninterrupted operation.

4. **Concurrency and Throttling**: To optimize performance, the scraper utilized asynchronous programming techniques to perform concurrent requests, along with throttling mechanisms to prevent overwhelming target websites with excessive traffic.
5. **Data Persistence**: Extracted data was stored in various formats, such as CSV files, JSON documents, or relational databases, providing flexibility for downstream processing and analysis.
6. **Logging and Monitoring**: Comprehensive logging and monitoring capabilities were implemented to track scraping activities, monitor performance metrics, and facilitate troubleshooting of issues

## Eventz

The Ruby Eventz App project aimed to create a comprehensive platform for organizing, managing, and promoting events of various types, sizes, and categories. Leveraging the Ruby programming language along with frameworks and libraries such as Ruby on Rails the project focused on delivering a user-friendly interface for event organizers and attendees alike.

### Key Features:

1. **Event Creation and Management**: Developed a user-friendly interface for event organizers to create, edit, and manage events. Organizers could specify event details such as title, date, time, location, description, and ticketing information.
2. **Ticketing and Registration**: Integrated ticketing and registration functionalities to enable attendees to RSVP and purchase tickets for events.
3. **Event Discovery and Search**: Implemented event discovery and search features to allow users to find relevant events based on criteria such as location, date, category, or keyword. Advanced search filters and recommendation algorithms improved event discoverability and user engagement.

## Weblog

The Ruby Blog project aimed to create a dynamic and feature-rich platform for publishing articles, sharing insights, and engaging with a community of readers. Leveraging the Ruby programming language and associated frameworks and libraries, the project focused on providing an intuitive and customizable blogging experience for both authors and readers.

### Key Features:

1. **Content Management System (CMS)**: Developed a user-friendly CMS using Ruby on Rails or Sinatra framework, allowing authors to create, edit, and publish articles easily. The CMS included features such as rich text editing, draft saving, and scheduling for seamless content management.
2. **User Authentication and Authorization**: Integrated user authentication and authorization functionalities to enable secure access to blogging features. Users could register, log in, and manage

their profiles, while administrators had additional privileges for managing users and content moderation.

3. **Comments and Interactivity**: Enabled commenting functionality to facilitate interaction and engagement between authors and readers. Comments were moderated to prevent spam and maintain a constructive discourse within the community.
4. **Search and Filtering**: Incorporated search and filtering capabilities to allow users to discover relevant articles based on keywords, topics, authors, or publication dates. Advanced search features such as full-text search and faceted filtering enhanced usability and content discoverability.
5. **Responsive Design**: Ensured the blog platform was responsive and mobile-friendly, providing a seamless browsing experience across various devices and screen sizes. Responsive design principles were applied to optimize layout and usability on smartphones, tablets, and desktops.
6. **SEO Optimization**: Implemented SEO best practices such as clean URL structures, meta tags optimization, and XML sitemap generation to improve search engine visibility and attract organic traffic to the blog.
7. **Accessibility and Security**: Ensured compliance with web accessibility standards (e.g., WCAG) to make the blog accessible to users with disabilities. Implemented security measures such as encryption, CSRF protection, and input validation to safeguard user data and protect against common web vulnerabilities.

**Natours Agency:** <https://natours-for-tourism.netlify.app> (January 2024 - January 2024)

Natours Agency is a one of the biggest travel agencies that helps you find the best tours around the world in cheapest price. This App Designed And Built With HTML5, CSS3, Sass With modern CSS techniques Flex, Grids, Floats Animations and more.

**Classy Weather:** <https://classyy-weather.netlify.app> December 2023 - January 2024

A Weather forecast Application for identifying and giving details about current weather among different cities around the world

**eat & Split:** <https://eat-and-split-it.netlify.app> November 2023 - December 2023

A react JavaScript Web Application that can be used to split the price of something among you and your friends

**Faraway:** <https://farawaayy.netlify.app> November 2023 - November 2023

Faraway is a reactjs Application built for those who want to organize and manage their tasks, goals, and priorities effectively.

**improved Agency website:** <https://youssefyousry994.github.io/improved-agency-website/>  
August 2023 - September 2023

- creating responsive and user-friendly web landing pages, focusing on clean and maintainable code

- Designed and developed an enhanced agency website using HTML5 and CSS3, incorporating CSS3 libraries and frameworks to elevate the website's functionality and visual appeal.
- Leveraged the power of CSS3 systems such as Flexbox and Grid to create a responsive and dynamic layout, ensuring seamless viewing and optimal user experience across various screen sizes and devices.
- Utilized CSS3 libraries to enhance the website's design elements, including animations, transitions, and effects, resulting in a captivating and interactive user interface.
- Achieved remarkable improvement in website speed, utilizing optimization techniques and best practices to enhance performance, providing visitors with a fast and efficient browsing experience.

### **Blog Platform: (Codsoft) August 2023 - August 2023**

- Developed a robust and scalable blog platform using modern web technologies such as MERN Stack.
- Implemented key features, including user authentication, blog post creation and editing, comment functionality, and search capabilities.
- Designed and optimized the platform's user interface for an intuitive and engaging user experience, considering responsiveness and accessibility best practices.

### **File Sharing with link App: (CodeClause) July 2023 - August 2023**

- A file sharing with link application built with MERN stack technologies is an application that allows users to upload and share files with others using a unique link. MERN stands for MongoDB, Express, React, and Node, which are the four key technologies that make up the stack. MongoDB is a document database, Express is a web framework for Node, React is a client-side JavaScript framework, and Node is a JavaScript runtime environment.
- Some features of a file sharing with link application built with MERN stack technologies are Users can upload files of various formats, such as images, documents, presentations, etc. Users can generate a unique link for each file that they can share with others via email, social media, or any other platform.
- Users can set an expiration time for the link, after which the file will be deleted from the server. Users can view and download the files that they have uploaded or received via the link. Users can enjoy a fast, secure, and user-friendly experience thanks to the MERN stack

### **Weather forecast application (CodeClause) <https://weatheer-com.netlify.app> July 2023 - July 2023**

- It's a weather forecast application. this project helps in knowing the weather and climate changes in any city all over the world just type the country, city name and it will show you some info about its weather degrees, Humidity, Wind ..etc.
- Developed a weather forecast application using HTML, CSS, JavaScript, Reactjs and OpenWeatherAPI .
- Utilized API integration to retrieve real-time weather data and displayed it in a user-friendly interface.
- Implemented features such as location-based weather forecasts, hourly and daily forecasts, and interactive weather visualizations.

### **Google authentication form: (CodeClause) <https://codeclause-auth.netlify.app> July 2023 - July 2023**

- It's a landing page website with a real time authentication form for signing in and out.
- Developed a RESTful API backend for a mobile application using Node.js and Express, supporting user registration, authentication, and data synchronization.
- Integrated with a cloud-based database service for efficient data storage and retrieval, ensuring high availability and data consistency.

- Implemented push notification functionality using Firebase Cloud Messaging, enabling real-time updates and user engagement.

**Cassmart e-commerce website:** <https://youssefyousry994.github.io/casmart/> January 2023 - February 2023

- Developed a robust and visually appealing e-commerce website using HTML5 and CSS3, incorporating advanced CSS3 libraries and frameworks for enhanced functionality and design.
- Leveraged the power of CSS3 systems such as Flexbox and Grid to create a responsive and dynamic layout, ensuring seamless viewing and optimal user experience across various screen sizes and devices.
- Applied CSS3 libraries to enhance the website's design elements, including animations, transitions, and effects, creating an engaging and interactive shopping experience for users.
- Ensured the website's responsiveness to multiple screens by employing responsive design techniques, allowing customers to access and navigate the e-commerce platform seamlessly on desktops, tablets, and mobile devices.

**Online restaurant landing page:** <https://youssefyousry994.github.io/Omnifood-Restaurant/> January 2023 - January 2023

- Created a visually appealing and user-friendly online restaurant landing page using HTML5 and CSS3.
- Implemented responsive design techniques to ensure seamless viewing and navigation across different devices, such as desktops, tablets, and mobile phones.
- Utilized HTML5 and CSS3 features, including modern layout structures, semantic tags, CSS animations, and transitions, to enhance the overall user experience and engagement on the website.

**Car rental website:** <https://youssefyousry994.github.io/ridex/> January 2023 - January 2023

- Developed a professional and visually appealing online car rental landing page using HTML5 and CSS3, incorporating the latest web design trends and best practices.
- Utilized the power of CSS Grid and Flexbox systems to create a responsive and flexible layout, ensuring optimal display and usability across different screen sizes and devices.
- Leveraged the Grid system to create a dynamic and organized grid-based structure for displaying car rental options, making it easy for users to compare and choose vehicles. Additionally, utilized Flexbox to create flexible and responsive navigation menus and content sections, enhancing the overall user experience.

**Travel company website:** <https://youssefyousry994.github.io/tourist-master/> January 2023 - January 2023

- Designed and developed an engaging and visually stunning travel agency website using HTML5 and CSS3, showcasing a wide range of destinations and services.
- Utilized the power of CSS Grid and Flexbox systems to create a responsive and flexible layout, ensuring seamless browsing experience across various devices and screen sizes.
- Employed the Grid system to create a structured and organized display of travel packages, allowing users to easily browse and compare different options.
- Leveraged Flexbox to create flexible and responsive navigation menus, ensuring smooth navigation and optimal user experience on the website. Additionally, utilized Flexbox for creating adjustable and responsive content sections, enhancing the overall visual appeal and usability of the website.



## **Todo List:** November 2022 - November 2022

- A todo application built with React technology is an application that allows users to create, view, update, and delete a list of tasks that they need to do.
- React is a JavaScript library that helps developers build user interfaces using components, which are reusable pieces of code that can render data dynamically.
- React also uses a virtual DOM (Document Object Model) to update the UI efficiently and support features like hooks and custom events.

## **Portfolio Website:** July 2021 - August 2021

- A portfolio website is a website that showcases my work, skills, and achievements as a professional or a creative. It is a way of presenting myself to potential clients, employers, or collaborators, and demonstrating my value and expertise.
- Developed a portfolio website that drove user engagement up 6x, achieved an average session duration of 5 minutes, converted visitors into leads at a rate of 15%, and increased traffic by 2.5x.
- Configured web design, templates, and content management systems to compile and publish content, assets, and code that optimized repeat visits and user engagement.

## **Certifications**

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### **Linux Administration: The Complete Linux Bootcamp**

Crystal Mind Academy – Udemy

- Certified in Linux Filesystem, File Permissions, Process Management, User Account Management, Software Management, Networking in Linux, System Administration, Bash Scripting, Iptables/Netfilter Firewall, Linux Security

### **The Complete Networking Fundamentals Course CCNA**

Udemy

- Certified in Networking Fundamentals, Network Protocols, Network Devices, Network Topologies, OSI Model, TCP/IP Model, IP Addressing, Subnetting, Routing, Switching, VLANs, ACLs, NAT, WAN Technologies, Wireless Technologies, Network Security, Network Troubleshooting and more

### **Ethical Hacking and Penetration Testing Complete Course**

Zsecurity

- Certified in Ethical Hacking, Penetration Testing, Footprinting and Reconnaissance, Scanning Networks, Enumeration, System Hacking, Malware Threats, Sniffing, Social Engineering, Denial-of-Service, Session Hijacking, Hacking Web Servers, Hacking Web Applications, SQL Injection.

### **Bug Bounty Hunting & Web Security Testing**

Zsecurity

- Certified In ability to discover Bugs and vulnerabilities, Identifying and exploiting web vulnerabilities such as SQL injection, Cross-Site Scripting (XSS), and Cross-Site Request Forgery (CSRF).
- Performing security assessments and penetration testing on web applications. Conducting reconnaissance and enumeration to discover potential attack vectors. Understanding the bug bounty ecosystem, platform usage, and reporting processes.

## **The Complete ES6 & React.js Crash Course**

MetaBrains – Udemy

- Certified in building responsive and interactive user interfaces with the new JavaScript2015+ and JavaScript technology libraries like React

## **Build Real world Websites With HTML And CSS**

CodingHeros – udemy

- Certified in building High Scalable and maintained responsive and interactive user interfaces using HTML5 and CSS3

## **Advanced CSS3 and Sass, Flex, Grid, Animation Course**

CodingHeros - Udemy

- Certified in Frontend Styling technologies of CSS and its Preprocessors

## **The Complete Web Development Bootcamp 2022**

London App Brewery – Udemy

- Certified in FullStack Web Engineering & Web Development with proficiency in the latest tools and technologies. HTML, CSS, Javascript, Node, React, MongoDB, Web3

## **The Complete CS50x Course**

Harvard University

- This is CS50x , Harvard University's introduction to the intellectual enterprises of computer science and the art of programming for majors and non-majors alike, CS50x teaches how to think algorithmically and solve problems efficiently. Topics include abstraction, algorithms, data structures, encapsulation, resource management, security, software engineering, and web development. Languages include C, Python, SQL, and JavaScript plus CSS and HTML