# Krishna Vaibhav Yadlapalli

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## TECHNICAL SKILLS

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|---|---|---|
| **Languages** | : | Javascript, Typescript, Python, C/C++, HTML, CSS, Java, Bash |
| **Frameworks** | : | Flask, Node.js, Express.js, Next.js, Angular, Vite |
| **Libraries** | : | React, Redux, React Router, JWT, Bootstrap, Material UI, Ant Design |
| **Databases** | : | MongoDB, MySQL, PostgreSQL, DynamoDB, Redis |
| **Methodology** | : | Agile, Scrum, SOLID Principles, Test-Driven Development(TDD), Microservices |
| **Cloud** | : | Amazon Web Services(AWS), GCP, Kubernetes, Docker, IaC, Terraform, CI/CD, Serverless |
| **Tools** | : | Git, Postman, Jira, MS Office Suite |
| **Fundamentals** | : | Algorithms, Data Structures, Database Design, Operating Systems, Computer Networks |

## PROFESSIONAL EXPERIENCE

**Programmer Analyst**                                                                                      *03/2022 - 11/2022*
Cognizant Technologies Solutions                                                                            Hyderbad, India

- Trained in full-stack web development on React Framework with JavaScript and Bootstrap.
- Achieved ServiceNow System Administrator certification, enhancing platform proficiency and enabling the team to resolve incidents 40% faster and cut ticket backlog by 25%.
- Developed dynamic user interfaces with ReactJS, focusing on modular and reusable code components, and promoting collaboration within the development team.
- Designed and managed REST API endpoints to efficiently provide necessary information for the front-end interface, resulting in faster data retrieval times.
- Implemented JSON Web Tokens (JWT) and applied cryptography methods to enhance the application's security, leading to a noticeable decrease in security incidents

## PROJECTS

**GoDine: Where Flavor Meets Reservation** | *Next.js, JavaScript, BootStrap, Go, MongoDB, JWT, Render, Netlify*| ↗ | ⌂

- A dynamic Reservation Booking platform, utilizing Next.js and MongoDB, aimed at streamlining the connection between Customer's and Restaurants.
- Participated in the integration of visual analytics into the platform, empowering users with actionable insights and data-driven decision-making tools.
- Engaged in the full spectrum of application workflow management, encompassing front-end interactions, back-end processing, and database operations to ensure efficient performance and scalability.

**File Share: Sharing Made Easy** | *EC2, VPC, DynamoDB, S3, API Gateway, SNS, AWS Backup, React, Bootstrap* | ⌂

- Engineered a cloud-based, real-time collaborative text editor, leveraging IaC, AWS Lambda and EC2 for scalable backend and frontend hosting.
- Utilized CloudFormation for easy deployment reducing setup time by 50%.
- Developed the front end using React, and the back end using Flask supporting over 1,000 users.
- Incorporated AWS API Gateway and Secrets Manager, ensuring robust security and efficient management of sensitive application data.

**ActicClass** | *NodeJS, MongoDB, ReactNative, Bootstrap, JWT, WebSocket's, Geofence, Junit* | ⌂

- Constructed a cross-platform mobile application that uses GPS to gamify class interactions with attendance tracking System.
- Created the app using React Native for Android and iOS platforms, increasing student participation.
- Created over 150 test cases with over coverage above 90% using Junit.
- Streamlined CI/CD pipelines for the product, accelerating development cycles by 25%.

**Web Application Penetration Tool Kit** | *Python, Cryptography, OS, JSON, Nmap* | 

- Security Vulnerability Identification: Detects the top 10 OWASP security vulnerabilities, Open Redirect, Cross-Origin Resource Sharing (CORS), Host Header Injection, CMS Detection, and Brute Force attacks.
- Security: Implemented public key and digital signature generation using Cryptography libraries to provide users with private keys, preventing vote manipulation.
- Ensures a secure and tamper-proof voting process.
- Utilizes blockchain technology for enhanced transparency and trustworthiness in the voting system.

**Decentralized Voting System** | *Python, Cryptography, OS, JSON, Web3JS, Soliditi* |

- Security Vulnerability Identification: Detects the top 10 OWASP security vulnerabilities, Open Redirect, Cross-Origin Resource Sharing (CORS), Host Header Injection, CMS Detection, and Brute Force attacks.
- Information Gathering: Performs extensive information gathering with capabilities such as Nmap scanning, port scanning, reverse IP lookup, subdomain enumeration
- Enhances web application security by identifying critical vulnerabilities.
- Provides comprehensive information gathering for better security assessment.

## ACHIEVEMENTS/AWARDS

- Completed 59 Rooms on TryHackMe.com and Ranked in the top 2%.  | ↗
- Earned Unix, PCAP, Android, and Recon Badges and solved 120 exercises on PentesterLab.com

## EDUCATION

**Dalhousie University**                                                                                  *09/2023 – 12/2024*
Master of Applied Computer Science

**Chandigarh University, India**                                                              *06/2018 – 04/2022*
Bachelor of Engineering in Computer Science (Hons.) Information Security

## CERTIFICATIONS

**Security Intelligence Engineer – Explorer Award (IBM)**  - Recognized for outstanding contributions in security intelligence, demonstrating expertise in identifying and mitigating security threats.

**ServiceNow Certified Administrator**  - Attained a fundamental understanding of AI and machine learning principles within the Azure ecosystem, laying a solid foundation for developing and implementing innovative AI solutions in diverse industry settings.

**Cybersecurity Roles, Processes & Operating System Security (IBM)** - Gained comprehensive knowledge of cybersecurity roles, processes, and operating system security, enhancing skills in safeguarding digital assets.

**Certification of Splunk Fundamentals (by Splunk Official)** - Achieved certification in ServiceNow administration, mastering the configuration, implementation, and maintenance of ServiceNow platforms.

**Python Data Structures from the University of Michigan (by Coursera)** - Gained expertise in Python data structures, enabling efficient data manipulation and analysis for various applications.

**Java Programming: Solving Problems with Software from Duke University (by Coursera)** - Enhanced problem-solving skills through Java programming, applying software development principles to create efficient solutions.

**Certification of Ethical Hacking (by Internshala)** - Developed proficiency in ethical hacking techniques, understanding vulnerabilities and implementing security measures to protect systems.