K SRI DATTHA SHIVA KUMAR

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SUMMARY

As a newly graduated professional with hands-on experience in software development projects, I am focused, results-driven, and proficient in multiple programming languages. I am a quick learner, motivated to contribute to team success, and driven by a strong desire to grow professionally in the tech industry. I am seeking an opportunity to enhance various software packages and further develop my skills in a dynamic and collaborative environment.

EXPERIENCE

01/2025 to 06/2025 Python Full Stack Intern

Parmy Technologies Pvt ltd-Hyderabad, India
Worked on a cloud security project focused on detecting and mitigating privilege escalation attacks using machine learning and full stack development.

Key Responsibilities:

- Developed backend APIs using Python (Flask/Django) to serve ML model predictions and user activity logs.
- Designed and implemented role-based access control and secure login features.
- Built responsive dashboards using HTML, CSS, JavaScript to visualize alerts and escalation paths.
- Managed data storage and retrieval using MySQL, optimizing queries for performance.

12/2019 to 06/2020 Internship

Electronics corporation of India limited (Ecil)-Hyderabad ,India

Key Responsibilities:

- Using MATLAB and Simulink to design and simulate complex electrical circuits
- Learned theoretical and practical skills by attending classes and workshops on specific job aspects
- Shadowed supervisor and senior staff to learn a wide range of simple and complex techniques.

EDUCATION

2025 **Master of Science**: Computer Science

Aurora Pg College

- Dissertation in Advanced Computer science and Machine Learning
- Coursework in Machine Learning

2023 **Bachelor of Science:** Electronics and computer science

Sri Sai degree and Pg college

- Dissertation in Electronics and computer science
- Coursework in UI
  Smart Television App Interface Design (UI/UX Project)
  Utilized tools such as **Figma** or **Adobe XD** for prototyping and **Sketch** for the final design

2020 **Diploma of Higher Education:** Electronics and communication

Brilliant engineering college

- Dissertation in Electronics and computer science

SKILLS

- **Effective communication**
- **Time management**
- **Team collaboration**
- **Problem-solving**
- **Multitasking efficiency**

CERTIFICATIONS

- **Front-End:** Html ,CSS and JavaScript
- **Back-End Programming:** Java ,Python
- **Cloud Technologies :**AWS
- **Databases**: SQL
- **Security Tools & Platforms:** Ethical Hacking, Metasploit, Linux
- **Other Tools:** Eclipse IDE, Visual Studio Code, MySQL Workbench, UI Design

PROJECTS

Privilege Escalation Attack Detection and Mitigation in Cloud

Technologies Used: Python, Machine Learning (LightGBM, Random Forest, AdaBoost, XGBoost), CERT Dataset, Cloud Security Concepts

Designed a machine learning–based system to detect and mitigate insider threats in cloud environments, focusing on privilege escalation attacks.

Key Contributions:

- Implemented ensemble ML models (LightGBM, RF, AdaBoost, XGBoost) to classify insider threats with high accuracy (up to 97%).
- Used behavioural analytics and anomaly detection to identify horizontal and vertical privilege escalation attempts.
- Trained models on a customized CERT dataset to simulate real-world cloud access patterns and insider attack scenarios.
- Evaluated model performance using precision, recall, F1-score, and confusion matrices to ensure robust classification.
- Proposed mitigation strategies based on access control policies and role-based privilege adjustments.

Criminal Face Detection

Technologies Used: Python, OpenCV, Machine Learning, Deep Learning

Developed a facial recognition tool to assist law enforcement in identifying suspects through real-time image and video processing.

Key Contributions:

- Built face detection and recognition modules using OpenCV and Haar cascades.
- Matched facial features against a pre-trained database of known profiles.
- Integrated system with video feeds for live tracking and alerts.

Home Automation By using java

Technologies Used: Java, IoT Concepts

Engineered a Java-based automation platform to control household devices and optimize energy usage.

Key Contributions:

- Developed device control logic for lights, fans, and sensors using Java.
- Achieved 15% energy efficiency by scheduling device operations based on usage patterns.
- Simulated IoT integration to replicate real-world smart home environments.

E-Digital Class Work Management System

***Technologies Used*: HTML, CSS, JavaScript, PHP, SQLite**

Key Contributions:

- Created dynamic UIs with HTML/CSS and enhanced interactivity with JavaScript.
- Developed PHP-based server logic for user authentication and assignment workflows.
- Connected a SQL database for storing submissions, grades, and notifications.
- Ensured mobile compatibility through responsive design techniques.

PERSONAL INFORMATION

Date of birth : 30/08/2002 **Nationality :** Indian

Marital status : Un-Married **Gender :** Male

HOBBIES AND INTERESTS

- Playing cricket
- Listening Podcasts
- Reading Books
- Public Speaking

DECLARATION

I hereby declare that all the information furnished is true to the best of my knowledge and belief.

Place:

Date:

K SRI DATTHA SHIVA KUMAR