Serin Tony

+91 9072114493 | Thrissur,Kerala | **serintony@gmail.com** | LinkedIn | GitHub

Objective

Results-driven professional with a Bachelors in Computer Science and 2+ years of industry experience. Demonstrated expertise in secure web development and cross-functional collaboration, showcasing strong analytical and problem-solving skills. Proactively expanded knowledge through certifications in cybersecurity. Passionate about advancing in cybersecurity, focusing on networking and security to address evolving threats and contribute innovative solutions with a forward-thinking approach.

Professional Experience

Systems Engineer, Tata Consultancy Sevices, Bengaluru, India   August 2022 -Present
- Develop and maintain responsive, scalable, and maintainable user interfaces using Angular.
- Collaborate with backend teams to integrate UI components with RESTfulAPIs and GraphQL services.
- Implement business logic related to reinsurance policies, risk analysis, and financial modeling.
- Optimize UI performance for handling large datasets and improving page load times.
- Ensure adherence to security best practices and compliance with data privacy standards relevant to the reinsurance industry.
- Write and run unit and end-to-end tests; participate in code reviews and maintain CI practices
- Maintain clear documentation and collaborate with stakeholders for effective communication and development.
- Address bugs, provide support, and implement updates for existing applications.
- Develop intuitive dashboards and reporting tools to make complex data accessible and visually appealing.
- Participate in agile practices and cross-functional team meetings to align development with business goals

Python Developer, Tata Consultancy Sevices, Remote(Internship)   March 2022 - June 2022
- Designed and implemented a Python-based web scraping tool to aggregate real-time information from multiple sources based on provided keywords.
- Utilized libraries such as BeautifulSoup and requests to parse and extract relevant data efficiently.
- Developed a filtering system to identify and prioritize content matching specified criteria, ensuring relevance and accuracy.
- Automated the process of gathering and summarizing online content, reducing manual effort by 80%.
- Delivered a professional-quality newspaper-style file used to brief stakeholders on trending topics

Flutter Developer, Byte Head, Remote(Internship)   May 2021 - February 2022
- Collaborated with the team to design and develop cross-platform mobile applications using Flutter and Dart.
- Implemented responsive UI components and integrated third-party APIs to enhance application functionality.
- Optimized app performance by debugging and resolving code issues, ensuring smooth user experiences.
- Enhanced user engagement through innovative UI/UX features.

Educational Qualification

Mar Athanasius College of Engineering, Kothamangalam   June 2018 - August 2022

Bachelor of Technology (Computer Science and Engineering)
CGPA : 8.12

Projects

Intrusion Detection System Using Hybrid Deep Learning   June 2021 - June 2022
- Built and trained a hybrid CNN-LSTM model for real-time IDS.
- Achieved high performance with balanced accuracy and reduced false positives.
- Enhanced model efficiency with pruning and optimization for real-world deployment.
- Tackled data imbalance using oversampling methods (e.g., SMOTE).
- Minimized computational overhead through model quantization.
- Implemented continuous model updates for adaptive threat response.
- Delivered an IDS capable of identifying complex attack vectors (e.g., DDoS, port scans).
- Successfully integrated the system into a scalable, real-time monitoring framework.

Hitch a Ride -Flutter Application   September 2020 - December 2020
- Increased ride-sharing efficiency and reduced fuel costs for users.
- Enhanced user engagement through a seamless, responsive mobile interface.
- Scaled the platform to handle a large number of concurrent users.
- Passenger-Driver Matching: Algorithm for detecting and pairing users going to similar destinations.
- Real-time Notifications: Alerts to drivers and passengers about match confirmations and ride updates.
- Route Optimization: Dynamic recalculation to ensure efficient shared rides.

Day Track -Flutter Application   April 2020 - September 2020
- Enhanced app scalability to support varying visitor volumes.
- Achieved seamless performance on both iOS and Android platforms.
- Implemented offline capabilities for tracking without network access.
- Visitor Log: Real-time visitor count entry with history viewing.
- Daily Summary: Users can track their personal visit patterns with visual summaries.
- Notifications: Alerts for exceeding visitor thresholds if needed.

Technical Skills

Programming languages: Python, Dart, Java, Shell scripting, C, C++
Web Technologies: HTML, CSS, Node.js, Javascript, TypeScript,
Databases: MongoDB, Firebase, SQL, MariaDB, Oracle
Frameworks and Libraries: GWT, Flutter, Angular
Tools and IDE: GitHub, VS Code, IntelliJ, Eclipse, Jira, Git
Project Management: Agile, Software Development Life Cycle (SDLC), Code review, Confluence
Cloud, Containerization, and DevOps: AWS, GCP

Volunteering and Community Service

National Service Scheme (NSS) Volunteer
- Leadership and teamwork through organizing group activities.
- Communication skills by interacting with diverse groups and promoting initiatives.
- Problem-solving and adaptability in various community service scenarios.

Certification

---

1. **Associate Cloud Engineer** (Google)
2. **Demystifying Networking** (IIT Bombay)
3. **IBM Specialization in IT Fundamentals for Security**
4. **Usable Security** (University of Maryland)