DEEP PAWAR

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SUMMARY

Software Engineer with expertise in developing scalable, cloud-native applications using Java, Spring Boot, and Python. Proficient in designing secure microservices and API-driven solutions aligned with headless commerce and modular system architecture.

EDUCATION

Illinois Institute of Technology, Chicago, USA (Masters in Computer Science; GPA: 3.66/4.0)   **Aug 2023 – May 2025**

Related Courses: Big Data Technologies, Advanced Database Organization, Cloud Computing, Project Management

University of Pune, India (BS. in Computer Engineering; GPA: 9.86/10.0)   **Nov 2020 – Jun 2023**

Related Courses: Data Structures, Software Design, Operating Systems, Artificial Intelligence, Deep Learning

University of Mumbai, India (Diploma in Computer Engineering; GPA: 9.34/10.0)   **Aug 2017 – Jul 2020**

Related Courses: Advanced Java Programming, Programming with Python, Object Oriented Programming, Intro to C++

WORK EXPERIENCE

TechCiti Technologies Private Limited, Bengaluru, India   **Feb 2022 – Apr 2022**
Software Engineering Intern
- Operated with a team of 4 for 12 weeks, conducted on-site visits, and interacted with 5 hospitals to design and develop an ETL pipeline to automate data extraction and hospital databases.
- Assembled a user-friendly Python, Django-based Blood Bank Management System and developed secure RESTful APIs using Django REST Framework to enable real-time data access across departments, resulting in an 18% reduction in emergency response time and a 25% improvement in overall blood inventory management.

QuickYes Infotech Private Limited, Pune, India   **May 2019 – Jun 2019**
Web Developer Intern
- Formulated a web-based parking management system adopting HTML, CSS, JavaScript, PHP, MySQL, elevating parking efficiency by 20% and reducing manual errors by 35% based on staff-reported improvements post-deployment.
- Implemented real-time vehicle tracking, automated charge calculation, and receipt generation, promoting revenue accuracy and operational transparency.

TECHNICAL PROJECTS

Weather Explorer App (GitHub)   **Apr 2025 – May 2025**
- Designed a full-stack, cloud-native weather app using React.js, Node.js, and MongoDB, implementing modular RESTful APIs and integrating external data sources (OpenWeatherMap, Google Maps API & YouTube Data APIs).
- Designed a responsive UI with Bootstrap and implemented CRUD functionality for managing saved searches, aligning with headless and composable architecture principles.

DDoS Attack Detection applying Random Forest Classifier (GitHub)   **Jan 2024 – Apr 2024**
- Led a team of 3 to develop a DDoS attack detection system achieving 81% classification accuracy using the CICIDS2017 dataset and Random Forest, improving anomaly detection in simulated real-time traffic.
- Designed a Python-based GUI for model training, testing, and attack visualization, integrating Wireshark and network traffic flow analyzer to streamline workflow.

Enhanced Encryption of Cloud Data using Hybrid Cryptography and Steganography (GitHub)   **Jan 2023 – May 2023**
- Managed team of 4, implemented hybrid Python, Go, and Django security system, and integrated hybrid cryptographic (AES, ECC, SHA-256) and steganographic (LZW, LSB) techniques.
- Improved data protection effectiveness by 20% through hybrid encryption techniques; tested in simulated cloud environments modeled for healthcare, defense, and finance sectors.

Gender and Age Detection System (GitHub)   **Feb 2023 – Apr 2023**
- Developed a real-time gender and age detection system using Python, CNNs, OpenCV, and Caffe model, achieving 92% accuracy for gender classification.
- Optimized algorithm performance for low-light scenarios, improving detection accuracy by 15%, enhancing robustness for real-world use cases such as surveillance and digital media analysis.

TECHNICAL SKILLS

Programming Languages	Java, JavaScript, TypeScript, C/C++, Python, HTML5, CSS3, PHP, Go, Swift
Frameworks	jQuery, React.js, Node.js, Spring Boot, Apache Maven, Apache Felix
Database Technologies	MySQL, PostgreSQL, MongoDB, Elasticsearch, Apache Spark
Tools & Technologies	JSON, XML, HTTP, Elastic Path Dev Tool, Docker, Git, Jenkins, AWS, Kubernetes, Linux/Unix

CERTIFICATIONS

- Java Training Complete Course, Udemy (Certificate)   **Jun 2025**
- RESTful APIs and Web Service, Udemy (Certificate)   **Jun 2025**
- CSS, JavaScript And Python Complete Course, Udemy (Certificate)   **Nov 2022**