RAJASEKHAR REDDY KOLAGOTLA

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SUMMARY

Innovative and detail-oriented **Full Stack Software Engineer** with 5+ years of experience in designing, developing, and deploying end-to-end web applications. Proficient in both front-end and back-end technologies. Skilled in building scalable, secure, and user-centric applications while ensuring seamless integration between client-side and server-side components. Experienced in the full software development life cycle (SDLC), from concept to deployment, with a strong focus on delivering high-quality solutions on time. Passionate about leveraging cutting-edge technologies to solve complex problems and enhance user experiences. Strong academic foundation in Computer Science, complemented by hands-on experience in industry-leading projects.

SKILLS

- **Programming Languages:** Python, Java, C, SQL, PL/SQL
- **Data Management:** Oracle APEX, Oracle EBS, SQL Developer, Toad, MySQL, MS SQL, MongoDB, Hadoop, Apache Hive, PostgreSQL
- **Data Analytics & Reporting:** Tableau, Power BI, Oracle Reports, Oracle Forms Developer, XML/BI Publisher
- **Web Technologies:** HTML, CSS, JavaScript, Typescript, Node.js, React.js, Django, Flask, Express.js, Ejs, Vite, REST APIs
- **Tools & Environment:** Git, Figma, Anaconda, Jupyter Notebook, Docker, Oracle JDeveloper, VS code
- **System Design & Architecture:** System Design, Design Patterns, ServiceNow, HPE PPM
- **DevOps & CI/CD Tools:** GitHub, Docker, Jira, WinSCP, Putty
- **Operating Systems & Platforms:** Windows, Ubuntu, Linux, macOS, Android, MSOffice, Google Workspace, SharePoint

WORK EXPERIENCE

Skeyee Dynamics   **Hyderabad, India**
Full Stack Software Developer (Part-time)   *Sep. 2022 – Dec. 2024*

- Developed and maintained **full-stack** web applications using **React.js**, **Node.js**, and **Python/Django**, supporting real-time drone operations and client-facing platforms.
- Engineered **RESTful APIs** and data pipelines to manage telemetry and sensor data from drones, integrating **AI/ML models** for flight analytics, anomaly detection, and predictive maintenance.
- Built interactive **data dashboards** to visualize drone metrics; followed **Agile methodologies**, conducted **code reviews**, and used **Git** for collaborative version control.

UL Solutions   **Fremont, CA**
Software Engineer Intern (Internship)   *May 2024 – Aug. 2024*

- **Automated** wireless performance testing using **Python scripts**, improving **test coverage** by **30%**, reducing manual inefficiencies, and ensuring consistency across various devices and platforms.
- Conducted **manual and automated performance testing** on wireless devices, using tools such as **UL EMC and RF signal analyzers** to **identify and resolve issues**, while collaborating with engineers to reproduce and document bugs in **Jira**.
- Created and **optimized test cases**, delivering **clear, comprehensive documentation** and automated scripts that ensured **100% client satisfaction** and adherence to **quality assurance standards**.

Tata Consultancy Services Pvt. Ltd.   **Kolkata, India**
I.T. Analyst (Full-time)   *Jan. 2019 – May 2022*

- Provided **application support** for **Oracle EBS Financials** by handling **tickets, debugging issues**, and delivering timely resolutions, ensuring **smooth operation** for end users.
- **Collaborated with clients** to understand **project requirements** and implemented **system enhancements**, ensuring successful **post-implementation support** and improved functionality.
- Recognized for consistently meeting **deadlines** and delivering **high-quality work**, earning multiple **client accolades** for **efficient issue resolution and project execution**.

PROJECTS

Securing Cloud Data with AES & Honey Encryption (React.js, Django, SQLite, AWS, Python):
Designed and implemented a scalable **dual-layer encryption system** integrating **AES and Honey Encryption**, enhancing cloud data confidentiality and resistance to **cyber threats**. Deployed the model on **AWS** for adaptability across cloud environments and conducted empirical testing, demonstrating a **15% improvement** in security metrics compared to traditional AES encryption.

E-commerce Application Development (Oracle APEX, Oracle Autonomous DB, SQL, PL/SQL, OCI, ORDS):
Designed and developed a scalable **eCommerce application** using **Oracle APEX** and **Oracle Autonomous Database**, ensuring high availability, security, and performance. Implemented key functionalities such as user authentication, product catalog management, shopping cart, and order processing. **Optimized SQL queries** and **PL/SQL procedures** to enhance database efficiency. Leveraged Oracle Autonomous DB for automated performance tuning and security, enabling seamless deployment and scalability.

Master's Project Management System (Figma, HCI Principles, CI/CD):
Designed an **UI/UX** using **Figma** for Graduate and Undergraduate students dealing with their final semester projects with academic advisors. This application bridges the gap between Students and Professors and Academic Management to work on their desired projects and ensure that each and every student gets their final project done within their respective time and graduates from university without any delays.

EDUCATION

California State University, Sacramento   **Sacramento, CA**
Master of Science – Computer Science; GPA: 3.63   *Aug. 2022 – Dec. 2024*

K L University   **Andhra Pradesh, India**
Bachelor of Science – Computer Science; GPA: 3.3   *Aug. 2014 – Jun. 2018*

CERTIFICATIONS

AWS Certified Solutions Architect - Associate, Data Visualization, Tableau, Power BI