

# Divakara Rao Annepu

<https://www.linkedin.com/in/divakara-rao-annepu/>  
<https://divakar007.github.io/portfolio/>

Email : adivakaraao@vt.edu

Mobile : +1-571-224-8997

## EDUCATION

---

- **Virginia Tech** Virginia, VA  
*Masters in Computer Science* *August 2023 - May 2025*
  - **Course Work** : Web Application Development, Mobile Application Development, Cloud Computing, Software Engineering, Machine Learning, Artificial Intelligence
- **Jawaharlal Nehru Technological University** Kakinada, India  
*Bachelor of Technology in Computer Science* *July 2017 - July 2021*

## SKILLS SUMMARY

---

- **Languages**: Data Structures and Algorithms, Java, Python, Kotlin, C++, C, C#, SQL, Shell scripting, JavaScript, ReactJS, Redis, Html, CSS, JQuery, OpenCV
- **Tools & Frameworks**: Spring boot, Spring Framework, Django, AWS, Linux, Hibernate, Docker, GIT, JIRA, Splunk

## EXPERIENCE

---

- **Accolite Digital** Hyderabad, India  
*Software Engineer* *September 2021 - July 2023*
  - **Trial License Generation API**: Built a trial license generation system, bolstering security by seamlessly suspending requests upon exceeding a predefined threshold within a specified time frame. This strategic implementation led to a notable 35% lowering in major vulnerabilities.
  - **API Security**: Achieved a robust application security uplift through the integration of SSL certificates, guaranteeing encrypted data transmission and creating a secure channel for uninterrupted client interaction, resulting in a 25% cutback in potential security breaches.
  - **Performance Optimization**: Revamped and optimized data table search functionality across the entire application, resulting in a remarkable 20% performance improvement and significantly enhancing the user experience.
  - **XSS vulnerabilities**: Mitigated all cross-site scripting vulnerabilities within the application, contributing to a 40% enhancement of overall security measures.
  - **Database Security**: Achieved a 40% reduction in potential security vulnerabilities by successfully implementing a secure DB connection within the enterprise web application using Oracle wallets.
  - **DB performance optimization**: Drove performance optimization initiatives for the purge process, resulting in notable efficiency gains, streamlined data management, and a significant 80% improvement in the optimization of transaction log size utilization.
  - **Spring Security**: Empowered users with autonomy over concurrent session limits by externalizing configuration via Spring Security context, culminating in an optimized user experience and a 30% reduction in session-related issues.
  - **UI/UX**: Designed and developed a user-friendly page for seamless variable management within the application's registry, integrating front-end and back-end components, which led to a 30% decrease in user workflow complexities.
  - **Library Up-gradation**: Upgraded log4j and Tomcat to their most current versions, enhancing system compatibility and ensuring the application benefits from the latest improvements.
  - **Leadership**: Guided the project with effective leadership, orchestrating and synchronizing all activities to achieve an on-time completion rate of 95%.

## PROJECTS

---

- **Caring Plates** Virginia, India  
*Virginia Tech* *Aug 2023 - December 2023*
  - **Java ,ReactJs, Springboot**: Developed "Caring Plates" web application using ReactJS and Spring Boot to connect restaurants with surplus food to NGOs and individuals, facilitating food donation and reducing wastage. The platform empowers restaurants to list excess food availability and enables volunteers to claim and deliver food to people in need.
- **E-authentication system** Kakinada, India  
*JNTU* *January 2020 - May 2020*
  - **Django,Python**: Engineered a robust two-factor authentication system for websites, integrating OTP and QR code methods. This dual-step verification process, initially authenticates users through email and password, followed by the choice of OTP or QR code authentication. This implementation resulted in a 40% abatement in unauthorized access attempts, streamlining user experience through QR code/OTP dispatch.

## EXTRA CURRICULAR ACTIVITIES

---

- **Learning & Innovation Club**, Led instruction on Data Structures and competitive coding, resulting in a substantial increase in placements. Organized and conducted hackathons, providing students with a valuable platform to enhance coding skills and problem-solving abilities.