

ANAND MANOHAR AGNIHOTRAM

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience in Python, Java, Pega 8, Web Development, AI, and Machine Learning. Accomplished a 20% reduction in processing time, as measured by system efficiency, by optimizing workflows and API integrations. Experienced in designing scalable systems, developing RESTful APIs, working with MySQL and Oracle databases, and implementing cloud-based architectures. Strong in data structures, algorithms, performance optimization, and problem-solving, delivering highly efficient software solutions.

SKILLS

Python, Java, C++, JavaScript, SQL, HTML, CSS, ReactJS, NextJS, Angular, RESTful APIs, Elastic Search | Scalable Web Applications, SocketIO, Responsive Design, Full-Stack Development, Information Retrieval | Amazon Web Services (AWS), CI/CD, Version Control, Natural Language Processing | Agile Development, Software Testing (Unit, Integration, Automation), Software Design Principles, API Integration | Object Oriented, MySQL, Oracle DB, MongoDB, Query Optimization, Data Modeling, Functional Analysis, Distributive Computing | Tools & Collaboration: Pega 8.6, Postman, Selenium, VS Code, Eclipse, Jira, Confluence, Slack, GitHub | Soft Skills: Effective Communication, Team Collaboration, Learning Agility, Problem Solving, Customer-Centric Thinking

EXPERIENCE

Verizon Data Services India – Software Development Engineer II (2 years)

Aug 2021 – Jul 2023

- Accomplished a 99% reduction in API troubleshooting time, as measured by developer efficiency, by creating a web-based debugging tool using Java, HTML, CSS, and JavaScript.
- Improved system performance by 30%, as measured by query execution time, by optimizing SQL queries.
- Developed and maintained scalable RESTful APIs, facilitating seamless data exchange between the Offer Management Platform and Oracle Databases, managing over 10,000 daily transactions.
- Automated daily deployments, improving system reliability and data accuracy with Pega deployment pipelines.
- Boosted customer satisfaction by 15% through workflow automation and process optimization using Pega 8.6.
- Increased team productivity by leading technical training on API development, debugging, and database optimization.

Pegasystems Corporation – Pega Intern (2 months)

June 2021 – Aug 2021

- Accomplished a 10% improvement in user experience, as measured by deployment success rates, by developing an inbuilt deployment tool for Pega Platform Deployment Manager.
- Reduced deployment time by 15%, as measured by system performance, by optimizing internal Pega code and enhancing deployment workflows.
- Worked on Pega internal Java code to enhance and optimize the flow process and ease the user experience.

PROJECTS

EDUVERSE – Web Development Project

(Dec 2024)

- Accomplished seamless student-advisor interactions by developing a scalable web application with real-time collaboration, academic networking, and mentorship features, as measured by increased user engagement.
- Technologies Used: ReactJS, NextJS, MySQL, SocketIO, HTML, CSS

REVSCAN – Machine Learning Project

(May 2024)

- Designed and implemented a sentiment analysis system for Amazon product reviews, utilizing a hybrid model combining CNN, RNN, and LSTM to achieve 94% accuracy, surpassing traditional approaches.
- Provided data-driven insights to identify top-performing and least-recommended products, enabling businesses to optimize product offerings and refine marketing strategies based on customer sentiment.

EDUCATION

The University of Texas at Arlington, Arlington, TX, USA – Master's in Computer Science (GPA: 3.9/4)

Graduated: May 2025

Relevant Coursework: Distributed Systems, Machine Learning, Artificial Intelligence, Design & Analysis of Algorithms, Data Mining, Software Engineering

Jawaharlal Nehru Technological University, Hyderabad, INDIA – Bachelor of Technology in Computer Science (CGPA: 9.5/10)

Graduated: April 2021

Relevant Coursework: Algorithms, Data Structures, Programming Languages, Database Systems, Object Oriented Programming

ACHIEVEMENTS & CERTIFICATIONS

- TCS CodeVita Season 12 Round 1 – Global Rank 338 (Competitive Coding Challenge)
- Pega Certified Senior System Architect (PCSSA v8.3) and Pega Certified System Architect (PCSA v8.1)
- Programming, Data Structures, and Algorithms using Python – IITM