Aman Chaddha

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Education

Vellore Institute of Technology	**Chennai, India**
B. Tech – Computer Science and Engineering, 8.1/10 GPA	*September 2021 – July 2025*
Gayatri Public School	**Agra, India**
Science with Mathematics, 82.4% Intermediate	*April 2019 – March 2021*

Experience

Software Development Engineer Intern   *August 2023 – October 2023*
Bharat Electronics Limited (Development & Engineering Team)

- Developed Customer Programming Software (CPS) for the D&E Department using PyQt5, Python, and QT Creator, which improved user interaction by 30%, as indicated by user feedback and reduced training time for new employees.
- Conducted over 100 comprehensive tests with Docklight and DMR-Digital Mobile Radio on Unix/Linux and Windows systems.
- Reduced communication latency by 15% and increased accuracy by 2%, leading to a 10% improvement in operational efficiency and established secure two-way serial port communication for radio parameter programming.

Projects

QuickBites | *React, Node.js, Express.js, MongoDB, Stripe*   *May 2023 – Aug 2023*

- Developed a full-stack food ordering web app with frontend, admin panel, and backend server.
- Introduced User Authentication for secure account creation and login functionality.
- Enabled users to add food items to the cart and place orders and integrated Stripe for secure online payment processing and created features for order placement and real-time status updates.
- Designed an admin interface for managing menus and tracking orders, leading to a 30% reduction in order management time and ensured mobile-first design for cross-device compatibility.

InfraSync | *Jenkins, Docker, Kubernetes, AWS EC2*   *Dec 2022 – March 2023*

- Architected and deployed an end-to-end corporate CI/CD pipeline from the ground up, incorporating rigorous testing protocols and security measures, which enhanced deployment efficiency by 50% and minimized security vulnerabilities by 25%.
- Configured a secure infrastructure with Kubernetes clusters, enabling rapid scaling of applications; achieved a 50% reduction in manual provisioning time, resulting in improved resource allocation and operational responsiveness.
- Managed Jenkins CI/CD with essential plugins, pipeline scripts, and vulnerability scanning, achieving a 25% decrease in deployment failures and 20% faster recovery times and deployed and established authentication and email notifications, enhancing the overall system security and user communication efficiency.
- Implemented advanced form validation protocols, ensuring 99.9% accuracy in user input and significantly reducing data entry errors, enhancing user experience and operational efficiency.

Insight Miner | *Python, PowerBI, SQL*   *Feb 2022 – March 2022*

- Conducted comprehensive data analysis on over 1000 records using Python, focusing on data cleaning, exploration, and visualization.
- Independently analyzed 15+ visualizations with Matplotlib and Seaborn to derive actionable insights from datasets.
- Built and evaluated a predictive model, achieving 85% accuracy, leveraging regression techniques.
- Streamlined data processing, reducing analysis time by 30% through code optimization and efficient data handling methods and led the entire project lifecycle, from data acquisition to final reporting, demonstrating end-to-end proficiency in analytics.

Technical Skills and Competencies

Languages: C++/C, Java, Python, SQL, NoSQL, JavaScript, HTML/CSS, R
Frameworks: *React, NodeJS, ExpressJS, MongoDB*
Developer Tools: *Azure, AWS, Docker, CI/CD, Kubernetes, SonarQube, Grafana, PowerBI*
Operating Systems: *Windows, Linux, Ubuntu*
Clubs and Sociétés: *Microsoft Innovations Club (Frontend Developer), GeeksForGeeks Campus Ambassador*
Certifications: *Microsoft Azure AZ-900 Certified, Microsoft Azure AI-102 Certified (Associate Level)*

Relevant Coursework

Data Structures and Algorithms	Operating Systems	Software Engineering	Computer Networks
Database Management System	Artificial Intelligence	Embedded Systems	System Design