

UDAY KIRAN CHIMPIRI

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PROFESSIONAL PROFILE

I am a highly disciplined and motivated master's student in Computer Science at the University of North Texas, with 4.5 years of professional experience in software development, problem-solving, and cross-functional collaboration. I have a proven track record of delivering scalable, user-focused solutions. Pursuing a career as a Full Stack Developer, I am proficient in JavaScript frameworks, Python, cloud platforms, and machine learning. Passionate about leveraging the latest technologies to drive innovation, I am a continuous learner eager to apply my technical skills and creativity to impactful projects.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, SAP ABAP, HTML, CSS

Frameworks & Libraries: React.js, Node.js, Express.js, Django, Flask, Spring Boot, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Spark, jQuery, GenAI, Large Language Models (LLMs), Natural Language Processing

Databases & Big Data: SQL, MySQL, PostgreSQL, MongoDB, Firebase (Firestore, Realtime Database), Hadoop, Hive

Cloud & DevOps: AWS, Azure, Google Cloud Platform (GCP), Docker, Kubernetes, Jenkins, Git, CI/CD pipelines

Tools & Visualization: JIRA, Postman, Visual Studio Code, Eclipse, Tableau, Power BI, Matplotlib, Plotly, Microsoft Office (Word, Excel, PowerPoint)

SOFT SKILLS

Quick Learner, Strong Decision maker, Complex problem solver, Innovative, Flexible

EDUCATION

Master of Science | Computer Science

University of North Texas, Denton, TX

Grade: 3.88

Expected Graduation Date: May 2025

Bachelor of Technology | Electrical and Electronics Engineering

Lakireddy Bali Reddy College of Engineering, Andhra Pradesh, India

Graduation Date: April 2017

WORK EXPERIENCE

Accenture Solutions Pvt Ltd, India | App Development Senior Analyst

Jan 23 - Aug 23

- Specialized in software development, analyzing business requirements, and developing, testing, and debugging.
- Collaborated with cross-functional teams for system integration and quality assurance.
- Mentored junior team members, enhancing their technical and professional skills.
- As a mentor, helping junior team members develop their technical and professional skills.

Capgemini Technology Services, India | Software Engineer Associate Consultant

Dec 18 - Dec 22

- Led a team of around 10 professionals as a techno-functional lead, overseeing complex projects and ensuring successful outcomes.
 - Meticulously worked on coding and implementation and ensured the quality and efficiency of the developments.
 - Organized and conducted multiple technical training sessions for teams of around 40 professionals. Mentored and guided 4-5 young programmers, helping them mature as professionals.
 - Contributed to the organization by developing value-added tools within the project, which received recognition across the business unit due to their effectiveness in enhancing productivity.
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ACADEMIC PROJECT EXPERIENCE

Data Visualization Web App for Blind - Developed an accessible web application that enables visually impaired users to understand and interact with data visualizations by providing audio descriptions of the visual data.

Accident Severity Prediction Model - Developed a machine learning model to accurately predict the severity of accidents based on a comprehensive dataset. Conducted thorough evaluations to identify the most effective model.

Rest-Assured-Restrooms Locator: Designed a location-based web app for users to find public restrooms with accessibility in the nearby region.

Article Summarizer using NLP: Created a tool based on Natural Language Processing techniques in an effort to make short summaries of lengthy articles.

Amusement Park Management System: Established a system for streamlining ticketing, managing rides, and visitor tracking in amusement parks.

Stock Prediction using ML: Created a machine learning system for stock price prediction using historical data and integrated yahoo finance to get the stock market live data.

Retirement Fidelity Calculator: Designed a planning tool for users to plan and project retirement savings and investment.

Poster and PDF Review Tool: Designed an automated tool to evaluate the accessibility the poster and PDF by analyzing fonts, image descriptions, links and other aspects, ensuring compliance with accessibility standards.

AI-Based Nutrition App: Designed an AI-powered app for providing individualized nutrition guidance based on input and medical data.

PUBLICATIONS:

Title: *Beyond Sight: Empowering Visually Impaired Users with Audible Graphs*

- Authored and published a research paper on developing an innovative tool for making data visualizations accessible for users who have a visual impairment via audio descriptions. The paper focuses on highlighting the tool's design, its implementation, and its role in making data visualizations accessible and usable for users who have a visual impairment.
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AWARDS & ACHIEVEMENTS:

- Received the “Web Accessibility Challenge Judges Award” for developing Data Visualization Tool for Visually Impaired, a tool presenting data visualizations in an accessible format in the form of an audio description, enhancing usage for users who have a visual impairment.
- Recognized with the “Out of the box” award for excellence in Q2-2021 by Capgemini Technology Services.