Vinay Adusumilli

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SUMMARY

Detail-oriented Data & Software Engineer with 2.5+ years of experience delivering scalable automation solutions, developing data-driven products, and optimising cloud-based systems. Adept at Python, SQL, data analysis, and machine learning, with a proven ability to turn raw data into actionable insights. Currently pursuing an MSc in Advanced Computer Science in the UK and seeking to apply my skills in a dynamic software developer role.

EDUCATION

University of Hertfordshire, United Kingdom   **September 2023 – September 2025**

Master of Science (MSc), Advanced Computer Science   Expected GPA: 4.00

Saveetha Institute of Medical and Technical Sciences, India   **July 2017 – June 2021**

Bachelor of Engineering (B.E.), Electronics and Communication Engineering   GPA: 3.20

PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions - Chennai, India   **October 2021 – September 2023**

Software Engineer

- Automated testing workflows using Python and ServiceNow APIs, reducing manual effort by 90%.
- Built RESTful API integrations with external platforms to streamline ITSM processes, cutting issue resolution time by 30%.
- Led DevOps pipeline deployments that improved release efficiency by 20%.
- Created business logic using client scripts, UI policies, and workflows to drive automation and performance.
- Operated in agile teams with full CI/CD integration and cross-functional collaboration.
- Developed UI components using HTML, CSS, JS, and AngularJS to improve user experience and production database maintenance.

Cognizant Technology Solutions - Chennai, India   **February 2021 – August 2021**

ASP.NET Intern | Web Developer

- Optimised front-end design and responsiveness for internal portals using HTML, CSS, JS, Bootstrap, and ASP.NET.
- Improved SQL query efficiency and integrated data operations using Entity Framework.
- Enhanced page load performance by 5% through front-end refactoring and best practices.

LEADERSHIP EXPERIENCE

BCS (British Computer Society) Student Engagement Coordinator   **October 2023 – September 2024**

Hertfordshire Computer Science Chapter | Hertfordshire, UK

- Led student engagement initiatives, increasing participation in computing events by 30%.
- Collaborated with the Hertfordshire Student Union to organise technical workshops and hackathons.

PROJECTS

Multimodal Artificial Emotion Intelligence   **June 2023 – September 2023**

- Built a multimodal emotion recognition system combining facial and speech data using TensorFlow, Keras, MFCC, HOG, and VGG16.
- Performed in-depth data preprocessing, feature extraction, and model tuning on 2,000+ samples.
- Achieved 92% accuracy for speech emotion and 85.7% for facial emotion classification.

Cloud Cost Optimisation Tool   **April 2025 – (in-progress)**

- Designed a system using AWS Cost Explorer API, Lambda, and ML to reduce enterprise cloud expenses.
- Uses predictive analytics for usage forecasting and automated resource recommendations.

SKILLS

Languages & Tools: Python, SQL, REST APIs, JavaScript, HTML/CSS, Git, Excel
Frameworks: AngularJS, Bootstrap, ASP.NET, jQuery
Machine Learning & AI: TensorFlow, Keras, MFCC, HOG, VGG16, Emotion Recognition, NLP
Data & Visualization: pandas, NumPy, Matplotlib, Seaborn
Cloud & DevOps: AWS, Azure, REST APIs, CI/CD, ServiceNow, GitHub Actions, Docker

CERTIFICATES

Azure AI Fundamentals (AI-900): Verify   AWS Cloud Practitioner (CLF-C02): Verify
Azure AI Engineer Associate (AI-102): Verify   Building LLM Applications with Prompt Engineering: Verify

PASSIONS & INTERESTS

Data-Driven Decision Making: Passionate about uncovering insights through data.
AI for Good: Exploring AI applications in emotion recognition and mental wellness.
Mentorship & Community: Active contributor to learning circles and tech forums.