

Yashwanth Reddy Medapati

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SUMMARY

Computer Science graduate with an M.S. and hands-on experience building full-stack applications, machine learning systems, and distributed data pipelines. Skilled in Python, Java, JavaScript, React, FastAPI, PostgreSQL, and AWS. Seeking entry-level Software Engineer or Machine Learning Engineer roles.

EDUCATION

Binghamton University | Thomas J. Watson College of Engineering and Applied Science, NY
Master of Science in Computer Science, Cybersecurity Track **GPA: 3.2/4.0 | Aug 2025 – May 2026**

Binghamton University | Thomas J. Watson College of Engineering and Applied Science, NY
Bachelor of Science in Computer Science, Artificial Intelligence (AI) Track **GPA: 3.4/4.0 | Aug 2023 – May 2025**

SELECTED PROJECTS

NutriDent AI: Caries and Nutrition Tracking Platform | Personal Project | [GitHub](#) **Jul 2026 – Present**

- Developed a full-stack oral health and nutrition analytics platform using React, FastAPI, and Python, featuring **10+ modules** for food analysis, wellness tracking, and caries-risk assessment
- Trained and deployed a Random Forest model using **6,400+ NHANES healthcare records** and **20+ dietary and lifestyle features**, achieving approximately **70% prediction accuracy**
- Integrated USDA FoodData Central, Open Food Facts, Google Vision API, and barcode-scanning workflows to deliver real-time nutrition analysis and food-risk visualization

AI Resume Intelligence | Personal Project | [GitHub](#) **Feb 2026 – May 2026**

- Developed a full-stack resume analysis and candidate-ranking platform using React, FastAPI, and Python, with separate workflows for job candidates and hiring teams
- Integrated PDF and DOCX parsing, ATS diagnostics, skill-gap analysis, Sentence Transformers, and cosine similarity to compare resumes with job descriptions
- Built batch ranking for up to **50 resumes** and validated scoring behavior against **18 predefined test cases**, passing all expected ranking and scoring checks

Multi-Platform Toxicity Analytics System | Group Project | [GitHub](#) **Aug 2025 – Dec 2025**

- Engineered a distributed data pipeline using Reddit OAuth and 4chan JSON APIs to collect and process **2K–9K+ posts per day** across five AI-focused communities, storing structured data in PostgreSQL
- Integrated Google Perspective API to calculate **seven toxicity metrics per post** and built a Plotly Dash dashboard with real-time filtering across a **40+ day dataset**
- Identified that 4chan exhibited up to **3–4× higher mean toxicity** than Reddit, with spikes exceeding **0.8** during peak events

PROFESSIONAL EXPERIENCE

Student Assistant, Transportation & Parking Services | Binghamton University **Jan 2025 – May 2026**

- Managed real-time availability data and **six operational metrics** across **36 campus parking lots** serving more than **20,800 students and staff**
- Validated and published time-sensitive updates through the **mCount platform** during high-traffic periods
- Analyzed parking-lot utilization patterns to help operations staff improve traffic flow and resource allocation

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript, SQL, C++, C
- **Frameworks & Libraries:** React, FastAPI, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, OpenCV
- **Databases, Cloud & Tools:** PostgreSQL, AWS, Git, Plotly Dash, Recharts, Google Vision API
- **Concepts:** Machine Learning, Deep Learning, Distributed Systems, REST APIs, CI/CD

CERTIFICATIONS & HONORS

- **Complete A.I. & Machine Learning, Data Science Bootcamp (ZTM)** **Expected Aug 2026**
- **BCG X Generative AI Virtual Experience Program** **May 2026**
- **Dean's List, Binghamton University** **Spring 2024**