

Sriteja Vemugunta

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Programming Languages: Python, Java, JavaScript, C++, Go/Golang, HTML, CSS, SQL, Kotlin, x86-assembly

Frameworks: React.js, Node.js, Express.js, Flask, Tensorflow, PyTorch, NumPy, pandas, Spring Boot, Flutter

Databases/Query Languages: MongoDB, Mongoose, MySQL, Firebase, PostgreSQL, GraphQL

Technologies: Git, Google Cloud Platform (GCP), AWS (S3, EC2, RDS, SQS), Docker, Kubernetes, Linux, Auth0, Kafka

EDUCATION

University of Wisconsin – Madison

Expected May 2027 | GPA: 3.95/4.00

Bachelor of Science in Computer Science and Data Science | Dean's List

Relevant Coursework: Data Structures and Algorithms, Machine Learning Theory, Computing in Java, Discrete Mathematics

WORK EXPERIENCE

Leidos

June 2025 - August 2025

Incoming Software Engineering Intern

Arlington, VA

- Internship offer accepted; onboarding and training scheduled for Summer 2025
- Expected to contribute to full-stack development and cloud-based system architecture

MyStage Music

October 2024 - January 2025

Software Engineering Intern

Madison, WI

- Improved music event geolocation accuracy by **94%** with Python via Google Cloud Run functions and Google's Geolocation API to retrieve and update latitude/longitude data in Firebase
- Enabled secure user onboarding for **500+ users** by developing a login/signup interface in Flutter integrated with Auth0
- Abstracted CRUD logic into an admin portal using React.js and Node.js, streamlining event editing and deletion for non-technical users

Pronix Inc.

May 2024 - September 2024

Software Engineering Intern

New Brunswick, NJ

- Led other interns to develop a full-stack client support portal, working cross-functionally across the frontend and backend to enable **200+** help request submissions using React.js, Express.js, Node.js, and MongoDB
- Refined transcription accuracy by **20%** using Python and Google Speech-to-Text on audio logs referenced in MongoDB
- Built a mental health chatbot using Python and TensorFlow, trained on user utterances for intent recognition and later scaled to serve over **10,000 users**

University of Texas at Dallas

August 2023 - May 2024

Researcher Intern under Professor Brian Ricks

Richardson, TX

- Researched unsupervised detection methods for smokescreen-enabled cyberattacks, supporting the development of anomaly-based intrusion detection for large-scale campus networks processing **1,000,000+** traffic flows
- Achieved **98.6%** accuracy in classifying known traffic and detecting anomalies in unlabeled network data by implementing a k-Prototypes clustering algorithm with bounded densities
- Developed a Python-based network traffic generation framework using Scapy and Wireshark to simulate **50,000+** communication patterns and produce datasets accepted by the professor for academic research
- Enhanced testing consistency across OS environments using Docker containers and Kubernetes orchestration

PROJECTS

JP Morgan Chase Virtual Project (Midas Core) | [Certificate](#) | (Java, Spring, Kafka, SQL)

May 2025

- Integrated a Kafka consumer in a Spring Boot microservice to asynchronously receive and deserialize financial transactions into an existing transaction class for further processing
- Implemented transaction validation using Spring Data JPA and an H2 database, ensuring data integrity through sender/recipient verification
- Connected the project to an external Incentive API using Spring's RestTemplate, combining transaction records with incentive data and updating recipient balances accordingly

Skin Cancer Detector - Pomona Valley Hospital | (Python, TensorFlow, OpenCV, Keras)

February 2025 - April 2025

- Worked in a team of **5** under Dr. Giri Vuyyuru to train a Convolutional Neural Network (CNN) with Python, TensorFlow, and Keras using Stanford's dataset of over **30,000** images
- Increased CNN efficiency by using ReLU activation and max pooling to reduce complexity and introduce non-linearity
- Optimized CNN accuracy by **7%** through Adam optimizer tuning with custom learning rates in Jupyter Notebook

LEADERSHIP/ACTIVITIES

Hot-N-Fresh

April 2025 - Present

Team Lead & Full-Stack Developer

Madison, WI

- Launched a food service in coordination with local food banks, connecting **50+** cooks to underserved individuals
- Direct a team of four students to develop a mobile application using React Native and Node.js with Express, linking food donors to local shelters to streamline meal distribution