

Sree Sai Bhargav Sarvepalli

+1 667-452-0666 | sreesaibhargav@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Full-stack Software Engineer with production experience building React + TypeScript + Django applications. Currently developing a volunteer management platform end-to-end; recently shipped NexTask — an AI-powered Kanban SaaS with real-time collaboration, Supabase backend, Anthropic API integration, and a Three.js landing page. Pursuing MS in Computer Science at UMBC (GPA: 3.74). Seeking frontend or full-stack roles where I can own features from design to deployment.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, Framer Motion, Three.js / React Three Fiber

Backend: Node.js, Django, Django REST Framework, FastAPI, RESTful APIs, Supabase, Microservices

Databases & Auth: PostgreSQL, MySQL, MongoDB, Supabase Auth, Google OAuth 2.0 (PKCE), Row Level Security

DevOps & Tools: Docker, AWS (EC2, S3), Vercel, CI/CD, Git, GitHub Actions, GitLab, Vite

EXPERIENCE

Software Developer — American Technology Initiative Inc. Mar 2026 – Present | Remote

React · TypeScript · Django REST Framework · PostgreSQL · Docker · GitLab CI/CD

- Lead end-to-end development of a containerized full-stack volunteer management platform (React + Django + PostgreSQL), owning feature delivery across frontend, API design, and deployment infrastructure
- Designed and optimized RESTful APIs with Django REST Framework, improving real-time data access and reporting performance for volunteer coordinators across multiple user roles
- Architected Docker-based dev and production environments with modular backend structure, reducing developer onboarding time and ensuring consistent parity between local and deployed builds
- Maintained code quality through GitLab CI/CD pipelines and peer code reviews in a distributed team; diagnosed and resolved production issues, improving overall application reliability

Graduate Teaching Assistant — University of Maryland, Baltimore County Aug 2025 – Jan 2026

Malware Analysis · Linux · GDB · Reverse Engineering · Secure Coding

- Mentored 40+ students through malware analysis, system-level debugging with GDB, and reverse-engineering on Linux, resulting in measurably higher lab completion rates and stronger debugging proficiency
- Diagnosed environment and toolchain issues across student machines, standardizing setup steps that reduced lab failures significantly throughout the semester
- Evaluated assignments using a secure-coding rubric with detailed written feedback; students showed a measurable reduction in reported security flaws in subsequent project submissions

Web Development Intern — Codsoft

May 2023 – Jul 2023 | Remote

HTML · CSS · Bootstrap · Django · Node.js · Git

- Built and delivered responsive, cross-browser UI components using HTML, CSS, Bootstrap, and Django; applied lazy loading and optimized styling to improve page-load speed and device compatibility
- Translated product requirements into reusable, well-documented front-end components in Node.js, reducing rework across the team and ensuring consistent UI behavior across the application

PROJECTS

NexTask — AI-Powered Kanban SaaS | [GitHub](#) | [Live Demo](#) Apr 2026

React 18 · TypeScript · Tailwind CSS · Supabase (PostgreSQL + Realtime + RLS) · Anthropic API · Three.js · dnd-kit · Framer Motion · Vercel

- Architected and shipped a full-stack SaaS task management platform from scratch: real-time collaborative Kanban boards with drag-and-drop (dnd-kit), optimistic UI updates, and a 4-stage workflow — giving interactions a near-instant feel regardless of network latency
- Integrated the Anthropic API to power three AI features: automatic task description generation from a title, intelligent priority-level suggestion based on task content, and structured subtask breakdown for complex tasks — reducing manual task setup time for users
- Built multi-user workspace collaboration with Supabase Realtime channels scoped per workspace; implemented Google OAuth (PKCE flow) and email/password auth via Supabase Auth, with PostgreSQL Row Level Security policies enforcing data isolation at the database layer rather than the application layer

- Engineered a Three.js / React Three Fiber landing page featuring a 3D animated hero (distorted orbs, particle field, mouse-reactive rings), Lenis smooth scroll, scroll-driven 3D product mockup rotation, a liquid morphing cursor, and a live embedded working demo board — showcasing the product without requiring sign-up

Pulsar Star Detection — ML Microservice Platform | [GitHub](#)

Aug – Dec 2025

Python · FastAPI · LightGBM · Streamlit · Docker · PostgreSQL · Redis · AWS EC2 · GitHub Actions · SMOTE · Optuna · SHAP

- Designed and deployed a cloud-hosted ML inference service using FastAPI + LightGBM, achieving 99% accuracy and ROC-AUC of 0.973 on telescope observation data; architected separate microservices for ingestion, preprocessing, inference, and results storage, each containerized independently with Docker
- Applied SMOTE for class imbalance, Optuna for automated hyperparameter tuning, and SHAP for model explainability; built a Streamlit dashboard supporting both single-sample and batch predictions with EDA visualizations and interpretability output
- Deployed the full stack to AWS EC2 with a CI-ready GitHub Actions workflow for automated testing and deployment; used Redis for caching inference results and PostgreSQL for persistent storage of prediction history

Cross-Lingual Sentiment Analysis — Transformer Benchmarking

Feb – May 2025

Python · PyTorch · HuggingFace Transformers · mBERT · XLM-R · XLNet · Scikit-learn

- Engineered multilingual emotion-classification pipelines using mBERT, XLM-R, and XLNet; conducted rigorous zero-shot vs. fine-tuned model comparisons across multi-domain datasets including GoEmotions, Amazon Reviews, and MasakhaNER
- Designed reproducible benchmarking experiments evaluated on Accuracy, F1, and BLEU metrics to assess cross-lingual generalization; improved model robustness through optimized tokenization strategies and systematic hyperparameter tuning

Chest X-Ray Classifier — COVID-19 / Pneumonia / Normal

Sep 2024 – Jan 2025

Python · TensorFlow · Keras · OpenCV

- Built and trained CNN models to classify chest X-rays across three categories (COVID-19, Pneumonia, Normal), achieving AUC scores of 0.99, 0.98, and 0.97 respectively on a held-out test set
- Applied data augmentation techniques and GPU-accelerated training to address class imbalance and reduce overfitting; conducted exploratory data analysis to validate dataset quality and distribution before training

Blockchain-Powered Academic Record Access Control

Dec 2023 – Apr 2024

Solidity · Ethereum · Node.js · JavaScript · HTML · CSS

- Designed a three-layer distributed architecture for tamper-proof student certificate management using Ethereum smart contracts; implemented granular access-control logic enabling certificate owners to approve or deny third-party data requests
- Built a full-stack interface with authentication and role-based flows for students, verifiers, and administrators; strengthened data integrity and fault tolerance through decentralized storage and consensus mechanisms

EDUCATION

University of Maryland, Baltimore County

Aug 2024 – May 2026

M.S. Computer Science · GPA: 3.74

Relevant Coursework: Natural Language Processing, Machine Learning, Data Science, Design and Analysis of Algorithms, Malware Analysis, Service-Oriented Computing, Quantum Computing

B V Raju Institute of Technology

Sep 2020 – Jun 2024

B.Tech Computer Science · GPA: 3.37

CERTIFICATIONS

AWS Cloud Virtual Internship (AWS Academy) · Robotic Process Automation (Blue Prism University) · Web Development (Udemy) · Problem Solving & Java (HackerRank)