

Pruthvi Nandan Janga

Tempe, Arizona · Open to Relocation · 484-898-9117
pjanga@asu.edu · linkedin.com/in/pruthvijanga · github.com/DaBestCode

EDUCATION

Arizona State University

B.S. & M.S. in Computer Science, GPA: 3.98/4.00

Tempe, AZ

Expected Dec. 2026

- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Design, Software Engineering, Distributed Systems, Operating Systems, Database Management Systems, Cloud Computing, Machine Learning.

EXPERIENCE

Software Engineer Intern

Jun. 2026 to Aug. 2026

Zscaler

San Jose, CA

- Enabled 9 internal teams to develop task-specific SLM and LLM workflows on shared infrastructure by delivering a configurable Python-based ML and data-pipeline platform for inbound security requests.
- Cut new pipeline setup time by 58% and increased team delivery efficiency by 23% by designing reusable, YAML-driven components for ingestion, cleaning, PII deduplication, routing, model export, and quantization.
- Strengthened pipeline reliability by orchestrating datasets in Amazon S3, triggering SageMaker runs with Lambda, and using CloudWatch logs and execution metrics to diagnose job failures and monitor system health.
- Lowered repeated pipeline-engineering effort by 70% by implementing budget-aware controls that automatically stopped training jobs exceeding configured per-run spend thresholds.

Full Stack Developer Intern

Sep. 2025 to Dec. 2025

Undergraduation.com

Boston, MA

- Supported 5K+ requests with sub-100ms common-path latency by building Python and Node.js backend services with optimized PostgreSQL queries, Redis caching, and efficient data-access patterns.
- Reduced average response time by 30% by delivering an AI-assisted student-support platform with React and TypeScript interfaces, LLM routing, and cached response paths for frequent requests.
- Increased release consistency by designing REST APIs and implementing Docker-based GitHub Actions CI/CD workflows with automated build, test, review, and deployment stages.

Backend Developer

Jun. 2025 to Aug. 2025

DigiClips, Inc.

Tempe, AZ

- Maintained 99.9% uptime for real-time media workflows serving 1K+ concurrent users by developing distributed, event-driven Node.js services with Kafka, PostgreSQL, and Redis.
- Improved high-traffic endpoint performance by 45% through database schema redesign and targeted indexing, reducing query latency without increasing infrastructure cost.
- Accelerated production troubleshooting by adding structured logging and operational metrics for service latency, errors, and throughput.

Machine Learning Research Student

Nov. 2025 to Present

Active Perception Lab, Arizona State University

Tempe, AZ

- Built reproducible PyTorch training and evaluation pipelines for event-based spacecraft perception, automating preprocessing, experiment tracking, model benchmarking, and error analysis.
- Contributed to a spacecraft pose-estimation project that placed 4th out of 59 teams in the AI4SPACE SPARK 2026 challenge through systematic ablation studies and performance analysis.

PROJECTS

Distributed Warehouse Data Platform | Python, Hadoop MapReduce, Bigtable, Docker, Kubernetes

2025

- Processed warehouse and logistics data through Python and Hadoop MapReduce workflows, applying distributed-computing patterns to large operational datasets.
- Designed Bigtable-backed NoSQL data models and REST API workflows, documented service contracts with Swagger, and tested endpoints with Postman to improve reliability and handoff.
- Standardized deployment of data-processing and API components by containerizing services with Docker and orchestrating workloads through Kubernetes.

Linux Process Management System | C, C++, Python, Bash, Linux

2024

- Coordinated concurrent workers by implementing a multithreaded producer-consumer system with POSIX threads, semaphores, and shared memory to prevent resource starvation under load.
- Increased system visibility by creating Python and Bash utilities that tracked CPU and memory utilization, detected zombie processes, and produced logs and anomaly alerts.

TECHNICAL SKILLS

Languages: Python, Java, C++, C, JavaScript, TypeScript, SQL, Bash

Databases & Data: PostgreSQL, MySQL, Redis, MongoDB, Bigtable, SQL optimization, Hadoop MapReduce, data pipelines

Distributed Systems: Kafka, microservices, event-driven architecture, data structures and algorithms, object-oriented design

AWS & Cloud Native: Amazon S3, AWS Lambda, Amazon SageMaker, Docker, Kubernetes, GitHub Actions, CI/CD

Operations & Tools: Linux, Git, Bash scripting, monitoring, telemetry, logging, debugging, performance tuning

AI-Assisted Development: Claude Code, GitHub Copilot, Cursor, LLM-assisted code review and development workflows

Certifications: AWS Certified Cloud Practitioner · Microsoft Azure AI Engineer · Deep Learning Certification