

PRANAV MACHIREDDY

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SUMMARY

Computer science student with foundations in software development, data structures and full-stack web technologies. Twelve projects shipped across computer vision, blockchain, machine learning and full-stack development, all publicly available. Four internships across full-stack development, cloud computing, data analytics and QA. Seeking a software engineering internship.

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C, SQL, Haskell

Web: React, Next.js, Node.js, Express, Flask, HTML5, CSS3

Data & ML: MongoDB, SQL, pandas, scikit-learn, NumPy

Vision & AI: OpenCV, MediaPipe, TensorFlow, PyTorch

Other: Solidity, Electron, Git, Linux/Ubuntu, Wireshark, Cisco Packet Tracer

PROJECTS

VeriCred — AI & Blockchain Loan Verification

Python · Flask · Solidity · Polygon · 2026

- Scored gig workers' creditworthiness from work-history data using an explainable weighted model.
- Deployed a Solidity contract on Polygon with SHA-256 hash-chaining and Merkle proofs for tamper-evident records.
- Built an employee portal with live risk scoring, connected via Web3.py and verifiable on PolygonScan.

Bookstore Spine — Full-Stack MERN Bookstore

MongoDB · Express · React · Node.js · 2026

- Built a complete bookstore: 96-title catalogue, search, reviews, wishlist and cart, behind a scroll-driven landing experience.
- Designed a REST API over MongoDB so cart and wishlist state persists per user on the server rather than in the browser.
- First project backed by a real database rather than flat files, replacing file-based persistence used in earlier work.

Gig Driver Earnings — Regression & Classification Study

Python · scikit-learn · pandas · 2026

- Compared ten algorithms on a gig-worker dataset; best earnings model reached R^2 0.9315, with 5-fold CV at 0.9322 ± 0.0033 .
- Found linear regression within 0.005 R^2 of gradient boosting, indicating a near-linear relationship rather than hidden structure.
- Reported that ride-completion classifiers hit 94.3% accuracy at ROC-AUC 0.52 — no better than chance on an imbalanced target — and concluded the features lacked the signal, rather than reporting the accuracy figure alone.

College AI Assistant — WhatsApp Schedule Agent

React · TypeScript · Node.js · Express · Gemini · 2026

- Monitors seven college WhatsApp groups and extracts timetable changes, room moves, cancellations and exam notices.
- Rule-matches known senders first and calls Gemini only for unclassifiable messages, keeping API cost and latency down.
- Delivers a live dashboard plus optional daily email digests scheduled with Node-Cron.

EXPOS-NITC — Operating System Implementation

SPL · XSM machine · 2026

- Implemented an OS stage by stage: filesystem, bootstrap loader, executable loading, interrupt handling, kernel stack and console I/O.
- Built upward so each layer was verified before the next depended on it — at this level there is no partial failure to debug from.

EXPERIENCE

IBM SkillBuild — Cloud Computing

Mar 2026 – May 2026

- Studied cloud service models, virtualisation, resource allocation and distributed systems.
- Practised deploying and managing applications on cloud platforms with attention to scalability and security.

QSkill (SR India) — Full-Stack Developer Intern

Jan 2026 – Feb 2026

- Built full-stack applications with modern frameworks, focusing on how they scale.
- Designed REST API endpoints for data exchange between front end and back end.

Unified Mentor — Data Analyst Intern

Jul 2025 – Aug 2025

- Cleaned and interpreted real datasets, learning where data goes wrong before analysis begins.
- Designed and organised database tables so records could be stored and retrieved efficiently.

EDUCATION

Amrita Vishwa Vidyapeetham, Ettimadai

2024 – 2028 (expected)

B.Tech, Computer Science & Engineering · CGPA 7.00

Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Principles of Functional Languages, Python Programming, Web Development Fundamentals.

CERTIFICATIONS

AWS Cloud Practitioner Essentials (2026) · Data Analytics Assessment, LearnTube.ai (2025) · CodeSpark 72-Hour Build Challenge — Certificate of Excellence, Unstop (2025) · Smart Agentic AI Workshop, ECLearnix (2025) · Snaplocal Innovation Challenge, Unstop (2025)