Khadar Chittor

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PROFESSIONAL EXPERIENCE

IT Student Lead August 2025 – Present | California, United states

California State University,Auxiliary Services Corporation

- Built 4+ cross-system automations reducing manual workloads by ~45%, accelerating incident throughput and freeing engineer time.
- Implemented 2 Generative AI tools for log analysis and knowledge base creation, boosting team efficiency by ~30% and improving accuracy.
- Served as primary escalation contact for 100+ technical issues monthly, cutting downtime by ~20% across university systems.
- Mentored and led 8+ assistants, establishing PR guidelines, CI checks, and documentation standards that improved review speed by 35%.
- Developed real-time dashboards and analytics scripts to track incidents and system health, driving data-informed improvements.
- Standardized automation workflows and AI-driven processes, enhancing reproducibility and enabling scalable IT operations.

IT Student Assistant June 2024 – July 2025 | California, United states

California State University,Auxiliary Services Corporation

- Used Python, Pandas, and SQL to analyze logs, find recurring issues, and propose fixes, reducing ticket volume by ~15%.
- Supported AI chatbot integration for Tier-1 IT queries, automating common responses and cutting manual workload by ~25%.
- Analyzed ticket data with Python and Pandas to find recurring errors by device, OS, and building, providing insights that improved fixes.
- Built 5+ web utilities with JavaScript and TypeScript to automate reporting and repetitive tasks, accelerating IT issue tracking.
- Automated data validation scripts using Python and SQL, improving log accuracy and reducing manual checks by ~20%.
- Created AI-assisted monitoring tools to flag recurring system issues, boosting detection speed and helping prevent repeated outages.

Software Engineer October 2022 – December 2023 | Bangalore, India

HCLTech

- Designed & deployed Python-based core banking modules for Australia's largest bank using Django, Flask, pandas, PostgreSQL, REST APIs.
- Collaborated with 10+ stakeholders using Jira, Confluence, and regular bridge calls for requirement gathering and project coordination.
- Automated banking workflows and security testing using Python, Selenium, HCL AppScan, and SQL Server reducing manual effort by 35%.
- Delivered production support (L1/L2) for mission-critical systems via ServiceNow, achieving strict SLA compliance.
- Trained and mentored 12+ hires, delivered knowledge transfer on banking concepts, compliance, and workflows via SharePoint/wikis.

PROJECTS

AI Baseline Map - Full-Stack AI-Powered Web Baseline Platform (Google Chrome Hackathon Project)

- Developed a full-stack monorepo (Next.js + TypeScript + Tailwind CSS) to visualize and filter 1,000+ web features with browser support and baseline status indicators.
- Built an integrated developer tooling suite-including an AI Chat Assistant for contextual Q&A, a VS Code extension for baseline hints, a custom ESLint plugin for compliance enforcement, and a CLI toolkit for feature validation and report generation.
- Deployed the platform live on Vercel, achieving <300 ms response latency via serverless functions and secure GROQ API key integration for scalable production use.
- Designed an extensible architecture unifying AI integration, developer tools, and web standards analytics within a single monorepo ecosystem.

Gen-Aistro - AI-Powered RAG Platform for NASA Space Biology Research

- Built during a NASA Space Apps Hackathon, creating a full-stack RAG platform that enables semantic search across 600+ NASA research publications with AI-generated answers and verified citations.
- Developed an embedding-based retrieval pipeline improving search accuracy by ~40% and reducing response latency by 35% through optimized caching and rate limiting.
- Integrated an AI Insights Engine for trend prediction, impact analysis, and confidence scoring, driving data-driven research discovery.
- Architected a scalable system with Next.js, serverless APIs, and Python pipelines for data crawling, cleaning, chunking, and embedding.

TaFlo: Task & Flow Dashboard

- Developed a Next.js (TypeScript) app from scratch, which helps users capture, organize, and track tasks from intake to completion.
- Designed a reusable component system (task cards, forms, models, layout primitives) and sensible state patterns to keep features consistent
- Implemented bulk actions and multi-select to speed up repetitive maintenance (status changes, priority updates, label edits) across many tasks.
- Optimized build/deploy pipeline on Vercel with environment isolation and preview deployments, enabling iterative releases from pull requests.

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript (ES6+), C#, SQL, HTML, CSS (SASS/SCSS)

Backend, APIs & Databases: Django, DRF, FastAPI, Flask, Node.js, REST, GraphQL, PostgreSQL, SQL Server, Oracle, API integration (Postman)

Frontend: React, Next.js, React Native, Tailwind CSS, responsive design, accessibility, state management (Redux / Context API)

GenAI: RAG pipelines, embeddings, LangChain, OpenAI / Google GenAI APIs, vector databases (pgvector), safety & guardrails

AI & ML, Data: Pandas, NumPy, scikit-learn, NLTK, data preprocessing, analytics dashboards, model evaluation

Cloud, DevOps & Automation: AWS (EC2, S3, Lambda, RDS), Docker, Terraform, Jenkins, CI/CD, Vercel, Kubernetes, GitLab CI, GitHub Actions, Vercel

EDUCATION

California State University Fullerton January 2024 – May 2026 | Fullerton, California

Master of Science(M.S) in Computer Science

- Courses : Artificial Neural Networks, Advanced Algorithms, Machine Learning, Advanced Software Process

Anna University August 2018 – April 2022 | Chennai, India

Bachelor of Science(B.S) in Computer Science.

- Courses: Artificial Intelligence, Data Structures, Database Management Systems, Cloud Computing