Keshav Jindal

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Education

California State University, Long Beach, CA, USA **Graduating May 2027**
Bachelor's degree in computer science (**Honors Program**)
GPA – 3.6 (member of Dean's List)
Coursework: Digital Logic, Data Structures, Distributed Computing, Statistical Computing, Discrete Structures, Systems Programming, Algorithms, Computer Architecture, Software Engineering, Computer Security, Object-oriented Programming and Machine Learning & Artificial Intelligence.

Work Experience

Research Assistant | California State University, Long Beach — Aug 2025 - Present

- Developing **AI/ML models** on **time-series sensor data**, improving **prediction accuracy by 20%** through **optimized feature engineering and model selection**.
- Conducting **simulation-driven data analysis** on 100GB+ of sensor and experimental data, applying **NumPy, Pandas, and GPU-accelerated training pipelines** to increase predictive sensitivity by 25%.
- **Designing experiments**, co-authoring **research papers**, and **presenting complex findings** at academic conferences.

Founder and Lead | Project Starbound — May 2025 - Present

- **Leading** five squads to **ship 5 full-stack products adopted by 250+ users each** in 8-week cycles **by** driving roadmaps, Jira sprints, and code reviews.
- **Architecting** a prod platform, **cutting deploy lead time to 1 day by** unifying CI/CD (GitHub Actions, Docker, Terraform), typed APIs, and OAuth2/JWT.
- **Instituting** trunk-based dev with **CI/CD** (GitHub Actions, Docker, Terraform), test gates (Jest/pytest), ADR/RFCs, and **OIDC** secretless pipelines; **increased** build success and PR turnaround.

Software Development Intern | Chhabra Home Concepts Pvt. Ltd. — May 2022 - June 2022

- Developed a **Python-based** computer vision system that reduced fabric inspection time by **40%** by **automating image capture**, preprocessing, and defect detection using a **CNN model** served through a **Flask** web interface.
- Enhanced detection accuracy to **92%** and improved efficiency **80%** by leveraging **TensorFlow** for model training, **OpenCV** for image enhancement and segmentation, and **NumPy/Pandas** for fast batch data handling and analysis.
- Deployed the solution across **3 production lines**, processing **10,000+ fabric samples monthly**, cutting **defect-related rework by 12%**, and improving overall QC throughput by **35%**.

Projects

DevFlow Agent | Developer Workflow Automation | Github — Dec 2025 – Now

- Built a **Python LLM workflow agent** that automates **developer tasks** (feature request; plan; checklist; run summary) using **function calling, FastAPI, PostgreSQL** (run history), **Redis** (jobs), **Docker**, and **GitHub Actions**, plus a labeled dataset of 100 real dev workflows for evaluation.
- Shipped an **MVP** that completes 4 **end-to-end workflow steps** per run and reaches **90% task success** on the workflow dataset with **<2%** tool-call failure rate after adding validation and retries.
- Reduced manual planning and context switching from **20 min to 8–11 min** per feature request and improved iteration speed by auto-generating issue-ready plans and **PR** summaries with **100% run traceability** (logs, steps, outputs) for debugging and QA.

FableFrog | Devpost — June 2024 – July 2024

- Built and shipped a **text-to-speech** storytelling app in **36 hour**s using **Python, React Native, OpenAI API** (function calling) with **ElevenLabs**, supporting **20+ emotion parameters**.
- **RAFT** prompts + function calling for kid-safe storytelling; curated **1000+** labeled samples and **LoRA/PEFT** fine-tuned a model, boosting **policy pass rate +30%** and cutting **harmful-content -98%**; shipped an adversarial eval harness & privacy safeguards.
- Designed a **Gradio front-end** that served **200+ users** during the hackathon, boosting **engagement by 70%** over baseline.
- Parsed **raw SDK docs** and **GitHub repos** to integrate **LLM outputs** - reducing **integration time by 50%**.

Barter – Skill Exchange Platform | Devpost — Sep 2024

- Built and shipped a full-stack MVP, measured by feature-complete auth/chat/matching/**AR flows**, by architecting **React/TypeScript** UI, **Flask REST APIs, Firebase Auth/Firestore schemas,** and real-time services with **Flask-SocketIO**.
- Implemented **AI-enabled** experiences, measured by guided, real-time sessions, by integrating an **OpenAI API chatbot, AR navigation (TypeScript, Python)**, and **WebSocket-based** matching with client/server validation.
- Delivered results: **100+ early users, +35% 30-day retention, -40% onboarding time** by launching the prototype, instrumenting analytics, and iterating on **UX**.

Technical Skills

Languages:	Python, Java, C, C++, TypeScript, JavaScript, SQL, Rust, Go
Backend & Distributed Systems:	Microservices, REST, WebSockets, Flask, Flask-SocketIO, event-driven, idempotency, circuit breaker, retries, backoff, Oauth2, JWT
Cloud & AWS:	EC2, S3, DynamoDB, RDS, API Gateway, Lambda, ECS, Fargate, CloudWatch, IAM
Data & Databases:	PostgreSQL, MongoDB, Redis, Firestore; data modeling, indexing, query optimization; NumPy & Pandas
DevOps, Observability & SDLC:	Docker, GitHub Actions, Terraform, Linux, Git, CI, CD, code reviews, ADR, RFCs, trunk-based dev; OpenTelemetry, runbooks, SLOs, error budgets, pytest, Jest, mypy, GTM
AI/ML:	TensorFlow, PyTorch, scikit-learn, OpenCV; feature engineering; model serving; LLMs, APIs (OpenAI), TTS (ElevenLabs), embeddings, RAFT prompting
Frontend & Mobile (supporting):	React, Next.js, React Native, HTML, CSS