

Dhruv Bansal

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Summary

Final-year computer science undergraduate with experience running large-scale data pipelines and backend infrastructure. Building high-throughput ingestion platforms and cloud-deployed services with a focus on performance.

Education

Bachelor of Science in Computer Science

Arizona State University

May 2026

GPA 4.0

Relevant Coursework: Deep Learning, Database Systems, Operating Systems, Data Structures and Algorithms

Achievements: NAMU Scholar (\$14,500/year), FACE Program at ASU, Dean's List, 3-time Hackathon Winner

Experience

Software Engineer Intern

June 2025 - Dec 2025

[Chunkr](#)

San Francisco, CA

- Resolved failures in high-throughput distributed pipelines processing millions of records, improving reliability and correctness across concurrent workflows.
- Engineered and stabilized a concurrent Rust backend service for large-scale document and metadata processing, cutting end-to-end latency by 90% and improving throughput, fault tolerance, and observability within a 6-month engagement.
- Investigated production incidents across scheduling and segmentation components, enforcing safeguards that ensured predictable behavior under peak load across more than 5 critical subsystems.

Software Engineer Intern

Jan 2025 - Apr 2025

[Oats Overnight Co.](#)

Phoenix, AZ

- Built backend APIs and internal services for real-time inventory tracking and computerized workflows, reducing manual intervention by 43% and cutting processing time from hours to minutes.
- Developed customer insights tooling in collaboration with product and operations teams, supporting data-driven decision making across 3 business units and contributing to a measurable improvement in forecast accuracy.

Software Engineer Intern

June 2024 - Aug 2024

[PrivateBlok](#)

Remote

- Debugged and improved production ingestion pipelines by analyzing failure patterns, malformed inputs, and throughput bottlenecks, scaling capacity to 100,000+ signals per day.
- Built Python-based mechanized tooling to ingest and validate feeds from 1,500+ sources per day, reducing manual intervention by approximately 70% and improving integrity for downstream analytics.

Projects

Bluecast - The LinkedIn Growth Tool | [Website](#)

- Planned and ran a multi-tenant SaaS platform serving production users, building backend pipelines, monitoring infrastructure, and reliability improvements while scaling to over \$40,000 in revenue across 12 months.

Smart Negotiation Bots | [GitHub](#)

- Instructed reinforcement learning agents using GRPO and self-play to optimize multi-turn negotiation strategies, applying supervised fine-tuning with LoRA adapters and evaluating performance across benchmarks on GPU clusters.
- Demonstrated applicability to procurement automation, contract negotiation, and pricing optimization, where adaptive dialogue agents can reduce deal cycle time at scale.

Multi-Agent Code Generation System | [GitHub](#)

- Created a multi-agent code generation and coordination framework, incorporating GRPO-style reinforcement learning to study cooperative agent behaviors and improve solution quality on programming tasks.
- Executed controlled experiments analyzing failure modes in agent collaboration, identifying specific coordination breakdowns and applying fixes that improved solution quality.

Causal Feature Selection | [GitHub](#)

- Applied Markov blanket discovery algorithms for causal feature selection in tabular datasets. Benchmarked against standard methods on both synthetic and real-world corpora.

Technical Skills

Languages: TypeScript, Python, Rust, Go, Swift, Java, C++, C, Assembly

Tools: Linux/Unix, Docker, AWS, PostgreSQL, PyTorch, GraphQL, LangChain, CrewAI, React, Next.js

Core Competencies: Distributed Systems, Backend Platform Engineering, Data Infrastructure, Data Pipelines