Lakshay Bansal

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Education

State University of New York, Albany — Albany, NY   Jan 2024 – Expected May 2026
Bachelor of Science in Computer Science
Relevant Coursework: DBMS, DSA, Computer Networks, Software Engineering, D&AA, OS, Systems Fundamentals, Automata & Formal Languages, Assembly

Technical Skills

Languages:	Python, C/C++, C#, Java, JavaScript
Web Development:	React, Angular, Flask, Node.js, Express.js, HTML/CSS, PHP, Tailwind CSS
Databases & Cloud:	SQL, MySQL, MongoDB, Google Cloud Platform (Learning AWS)
DevOps & Tools:	Docker, Git, Jira, IntelliJ, VS Code, PyCharm, MySQL Workbench
Data Science:	pandas, NumPy, Matplotlib, BeautifulSoup
RPA:	Blue Prism, UiPath, Automation Anywhere

Experience

SUNY Albany — Albany, NY   Nov 2024 – June 2025
IT Student Assistant

- Designed and implemented a digital inventory tracking system, reducing request turnaround time by **30%**.
- Automated usage and repair logging, improving availability and reducing downtime across **50+** faculty.
- Delivered first-line IT support, resolving hardware/software issues to maintain operations.

Projects

Nimbus AI — Stock Market Analytics   *Present*
Next.js, TypeScript, Supabase/Postgres, Python, Vercel Edge

- Built AI-assisted backtesting dashboard with watchlists, strategy notebooks, and Monte-Carlo PnL simulations.
- Integrated real-time charts and serverless edge functions for low-latency computations.

Labourie — Short-Term Labor Marketplace   *Sept 2025 – Present*
Next.js, Prisma, PostgreSQL, Auth.js, Stripe, TailwindCSS

- Built two-sided gig platform with identity verification, escrowed payments, and job management.
- Developed ratings and analytics dashboard to improve trust and retention.

Java CPU & Cache Simulator   *Spring 2024*
Java, JUnit, Custom ISA

- Designed cycle-accurate 32-bit RISC CPU with fetch–decode–execute pipeline and two-pass assembler.
- Simulated L1/L2 caches with cycle accounting to analyze performance and hit/miss behavior.

Tran Language Interpreter   *Spring 2024*
Java, Recursive Descent Parsing

- Built Lexer → Parser → AST → Interpreter pipeline for custom language "Tran."
- Added detailed error reporting, token lookahead, and complete JUnit suite.

Word-Guessing Game (C Web Server)   *Fall 2025*
C, POSIX Threads, Sockets

- Developed multi-threaded HTTP server hosting a live word-guessing game with concurrent clients.
- Ensured memory safety, graceful shutdown, and proper synchronization.

Certifications

Algorithms — Stanford (Coursera), Introduction to AI — IBM, Introduction to Statistics — Stanford (Coursera), Introduction to Hardware & Operating Systems — IBM

Awards & Honors

2nd Place Winner, AI2EM Hackathon (Harnessing Artificial Intelligence to Manage Future Emergencies) - University at Albany (April 2024)