Dhruv Bansal

Tempe, AZ | (602)-790-9929 | dbansa11@asu.edu | linkedin.com/in/dhruvb26 | github.com/dhruvb26

Summary

CS junior with a strong foundation in full-stack development, AI-driven automation, and UI. Focused on building scalable applications, improving user experience, and learning about low-level systems.

Education

Bachelor of Science in Computer Science   *May 2026*
Arizona State University   **GPA 4.0**
Relevant Coursework: Software Engineering, Data Structures, Object-Oriented Programming, Operating Systems, Deep Learning
Achievements: NAMU Scholar ($14,500 p.a.), FACE Program @ ASU, Dean's List, 3x Hackathon Winner

Professional Experience

Software Engineer Intern   *Jan 2025 – Apr 2025*
Oats Overnight Co.   Phoenix, AZ
- Revamped reusable UI components with Storybook, reducing code redundancy by 30% and ensuring consistent design language across 5+ web applications. Collaborated with the design team to streamline development and accelerate feature rollouts.
- Built scalable internal tooling using Mapbox, GeoJSON, and Deepmerge to automate complex replacement order workflows, cutting processing time by 43% and minimizing manual intervention for operations teams.

Software Engineer Intern   *June 2024 – Aug 2024*
PrivateBlok   Remote
- Remodeled Python scripts to enhance the data ingestion pipeline, fortifying AI copilot functionality for data extraction and private market analysis.
- Streamlined processing of 3,000+ web links daily with an 83% accuracy by programming automation tools using Selenium and Pyppeteer, optimizing speed and reliability.
- Engineered data preprocessing pipelines by applying Scikit-learn and Pandas, leading to a 20% boost in AI copilot performance through standardizing outlier detection, data imputation, and feature scaling.

Software Developer   *Aug 2023 – Aug 2024*
EPICS @ ASU   Tempe, AZ
- Revamped an ECMO machine allocation system for Maricopa County, regulating 200+ requests per hour and specializing in improving equipment availability across 15+ hospitals.
- Optimized PostgreSQL queries, integrating caching techniques and RESTful APIs to achieve a 40% increase in allocation efficiency with real-time updates.
- Led a team of 6 developers to construct an application with specialized hospital authentication, utilizing WebSockets for real-time synchronization for better allocation responsiveness.

Projects

Bluecast - The LinkedIn Growth Tool | *https://www.bluecast.ai/*
- Developed an AI-driven LinkedIn growth tool, utilizing Anthropic models and LangChain to boost profile engagement and content optimization. Maintained the platform to scale, ultimately generating $30k+ revenue.

Sentiment Analysis Stock Prediction | *https://shorturl.at/Gwx0s*
- Designed a stock prediction model powered by LSTM networks and sentiment analysis. Applied the model to Apple Inc. (AAPL), outperforming traditional models by specializing in predictive insights based on social media sentiment.

Athena - Study Help | *https://github.com/dhruvb26/athena*
- Developed an iOS application in Swift using Firebase to streamline course and study material management. Engineered document parsing with OCR and integrated RESTful APIs to extract and analyze content, enabling real-time, personalized notifications for students.

Paperal (Agent Dialogue and Information Exchange) | *https://paperal.com/*
- Explore network effects and self-regulation among LLM agents, visualizing interactions with Neo4j. Applied GraphRAG and LangGraph to standardize research comprehension while remodeling autocomplete functionality for complex papers.

Skills

Skills: AWS, Docker, DevOps, CI/CD, Full-Stack, Database Design, Linux, Unix, iOS, Frontend, Backend
Languages: Python, JavaScript, Swift, Java, C++, C, Go (Golang), Assembly, NoSQL/SQL, GraphQL
Frameworks: Next.js, React.js, Vue.js, Node.js, PyTorch, Langchain, CrewAI, Flask, FastAPI, SwiftUI, JUnit, GraphQL, Django