

Jaiveer Bassi

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Summary

Full-stack developer with experience building and deploying GenAI-powered web applications using React, Node.js, and Python. Creator of production AI tools integrating OpenAI, LangChain, and transformer models. Published researcher in AI/ML with 4 papers.

GenAI & Full-Stack Projects

CareerTuner.org | OpenAI GPT-4, React, Node.js, Supabase, Tailwind, PDFKit

- Built and deployed AI-powered resume analyzer integrating OpenAI API for intelligent feedback, ATS scoring, skills gap analysis, and PDF export. 500+ users.
- Implemented RAG pipeline for context-aware resume suggestions based on job descriptions.

MedStract.net | BioBERT, React, Node.js, PubMed API, NLP

- Built biomedical literature platform using transformer-based NLP to generate summaries adapted to user expertise levels (researcher, student, general audience).

AlphaZero-Style Chess Engine | C++, PyTorch, Python, pybind11

- Developed hybrid chess engine using deep reinforcement learning and Monte Carlo Tree Search, training via self-play without human data.

AI Model Packager | Python, Docker, MLOps

- Built Python library and CLI to package ML models into optimized Docker images for fast inference deployment.

Experience

Kaiser Permanente Regional Laboratory

Oct 2023 – June 2024

Berkeley, CA

Software Developer

- Developed full-stack web application using React, Express, RESTful APIs, and SQL for clinical data management.
- Built data pipelines for processing and visualizing laboratory instrument data.

AI/ML Research

Local Deployment of Transformer-based Code Assistants | LLMs, Transformers | DOI

- Researched balancing speed, accuracy, and efficiency for locally deployed LLM code assistants.

Efficient Packaging and Deployment of AI Models for Edge Inference | DOI

Brain Tumor Classification with CNNs in PyTorch | DOI

Transferability of Adversarial Attacks Across ML Models | DOI

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, C++, Java, HTML/CSS

Frontend: React, Next.js, Tailwind CSS, Bootstrap

Backend: Node.js, Express, Flask, RESTful APIs, Microservices, Docker, Git, CI/CD

AI/ML & GenAI: OpenAI API, LangChain, PyTorch, HuggingFace Transformers, RAG Pipelines, Vector DBs

Data & Cloud: PostgreSQL, MongoDB, Supabase, AWS, Google Cloud, Pandas, NumPy

Education

Grand Canyon University

May 2024 – Oct 2025

Phoenix, AZ

MS in Computer Software Engineering

University of Silicon Valley

May 2021 – Aug 2023

San Jose, CA

BS in Computer Science

Certifications

IBM Artificial Intelligence (Aug 2025)

Stanford AI/ML in Healthcare (Jun 2025)

Google Project Management (Sep 2024)

Cisco Network Support and Security (Sep 2025)