Jaiveer Bassi

imjbassi.github.io

707-656-6227 jaiveerbassi@ymail.com linkedin.com/in/jaiveer-bassi github.com/imjbassi

leetcode.com/u/imjbassi/

Education

Grand Canyon University May 2024 – Oct 2025
MS in Computer Software Engineering *Phoenix, AZ*
- Conducting graduate-level research on secure embedded AI systems and advanced model deployment.

University of Silicon Valley May 2021 – Aug 2023
BS in Computer Science *San Jose, CA*

Solano Community College June 2020 – May 2021
Computer and Information Sciences *Fairfield, CA*

Experience

Kaiser Permanente Regional Laboratory Oct 2023 – June 2024
Software Developer *Berkeley, CA*
- Developed a full-stack web application using React, Express, and SQL for uploading and viewing lab instrument data.
- Built RESTful APIs, implemented frontend interfaces, and designed relational database schemas to support lab workflows.

Freelance Full-Stack Developer June 2024 – Aug 2024
Freelance Developer *Remote*
- Designed and deployed a SaaS project tracker using React, Node.js, and MongoDB with OAuth login.

Research

Expanded Efficient Packaging and Deployment of AI Models for Edge Inference | *Edge AI, Model Deployment*
- Proposed an end-to-end pipeline for efficient packaging and deployment of AI models on edge devices using quantization, pruning, and lightweight containerization.
- **DOI:** 10.13140/RG.2.2.23010.59844

Evaluating Transferability of Adversarial Attacks Across Machine Learning Models | *Adversarial AI, CNNs*
- Analyzed cross-architecture adversarial attack transfer using FGSM, PGD, and CW on ResNet, VGG, and MobileNet (CIFAR-10).
- **DOI:** 10.13140/RG.2.2.16410.76489

Brain Tumor Classification with Pretrained CNNs in PyTorch | *Deep Learning, Medical Imaging*
- Built a reproducible ResNet-18-based classification pipeline for brain MRI scans using transfer learning and PyTorch.
- **DOI:** 10.13140/RG.2.2.21638.28484

Projects

Pluro.app | *React, Express, PostgreSQL, Stripe, Google Cloud, iOS*
- Built a platform for website design agencies to manage clients, track projects, share design assets, and handle invoicing and payments.
- Developed a companion iOS app for clients to view project progress, communicate, and manage payments.

Network Protocol Simulator (VXLAN + OSPF) | *Python, Flask, NetworkX, Pytest*
- Built a Python-based simulator for spine–leaf data center fabrics, implementing OSPF shortest-path routing and VXLAN overlays with VTEPs/VNIs, logical tunnel encapsulation, and a REST API + web dashboard for topology visualization and automated route testing.

CareerTuner.org | *OpenAI, React, Node.js, Supabase, Tailwind, PDFKit*
- Developed and deployed an AI-powered resume analyzer with GPT-based feedback, ATS scoring, skills matching, Supabase backend, Tailwind UI, and PDF export.

MedStract.net | *Streamlit, BioBERT, PubMed API, UMLS, Python*
- Built a biomedical research platform with PubMed integration for querying abstracts, summarizing with BioBERT, and visualizing author-citation networks and keyword clusters.

Technical Skills

Languages:	Python, C++, JavaScript, Java, SQL, .NET, Node.js, R, HL7, HTML/CSS
Technologies:	React, Express, Flask, Streamlit, PyGame, XCode, Unity, Unreal Engine, VSCode, Git, AWS, Docker, Nginx, Supabase, Tailwind
Libraries/Tools:	PyTorch, HuggingFace Transformers, NumPy, Pandas, Scikit-learn, BioBERT, BioPython, Entrez, Matplotlib, PDFKit, OpenCV, CUDA, pybind11, NetworkX, Flask REST APIs, Pytest
Networking/Protocols:	VXLAN, OSPF, DNS fundamentals, Spine–Leaf topologies, Routing simulation, Packet encapsulation

Certifications

Cisco Network Support and Security Sep 2025
Credential ID: 9d0c624f-c2ea-4dde-9edf-f7ab096b3003

IBM Artificial Intelligence Fundamentals Aug 2025
Credential ID: 9499939c-56c2-4760-9ccd-b8399fd97d31

Stanford Fundamentals of AI and Machine Learning in Healthcare Jun 2025
11 AMA PRA Category 1 Credits

Google Project Management Professional Certificate Sep 2024
Credential ID: DQ3EEK89IWI6

Google IT Support Certificate May 2021
Credential ID: 6KPKTL6896VT