

Jaiveer Bassi

imjbassi.github.io

📞 707-656-6227

✉ jaiveerbassi@gmail.com

🌐 linkedin.com/in/jaiveer-bassi

🐙 github.com/imjbassi

🔗 leetcode.com/u/imjbassi/

Education

Grand Canyon University

MS in Computer Software Engineering

May 2024 – Oct 2025

Phoenix, AZ

University of Silicon Valley

BS in Computer Science

May 2021 – Aug 2023

San Jose, CA

Solano Community College

Computer and Information Sciences

June 2020 – May 2021

Fairfield, CA

Experience

Kaiser Permanente Regional Laboratory

Software Developer

Oct 2023 – June 2024

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

Freelance Developer

June 2024 – Aug 2024

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, HTML/CSS
Technologies: React, Node.js, Express, Flask, Streamlit, Unity, Docker, AWS, Git, Nginx, Supabase, Tailwind, XCode
Libraries/Tools: PyTorch, HuggingFace Transformers, NumPy, Pandas, Scikit-learn, OpenCV, CUDA, NetworkX, Pytest, Matplotlib
Networking/Protocols: VXLAN, OSPF, Spine-Leaf topologies, Routing simulation

Certifications

Cisco Network Support and Security <i>Credential ID: 9d0c624f-c2ea-4dde-9edf-f7ab096b3003</i>	Sep 2025
IBM Artificial Intelligence <i>Credential ID: 9499939c-56c2-4760-9ccd-b8399fd97d31</i>	Aug 2025
Stanford Fundamentals of AI and Machine Learning in Healthcare <i>11 AMA PRA Category 1 Credits</i>	Jun 2025
Google Project Management <i>Credential ID: DQ3EEK89IWl6</i>	Sep 2024
Google IT Support <i>Credential ID: 6KPKTL6896VT</i>	May 2021