

Bisman Sodhi

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SKILLS

Languages C++, C, Python, TypeScript, JavaScript, React, HTML, CSS, SQL

Software AWS, GCP, Docker, TensorFlow, JupyterNotebook, Git, Bash, Unix, Linux, Vercel, Airflow, Snowflake, Kafka, Node.JS, Elasticsearch, Github, GitLab, Agile, Postgres, NoSQL, PyTorch, GDB, Valgrind, Vim,

EXPERIENCE

Founding Software Engineer

Oct 2024 - Nov 2024

Haddington (Stealth Mode Startup)

Remote

- Implemented a Python pipeline for inter-robot communication, utilizing Kafka to store and distribute commands
- Enabled robots connected to the server to execute and coordinate actions in real-time
- Took initiative on doing market research, making business models and creating pitch videos for Venture Capitalists firm

Software Engineer

May 2024 - Oct 2024

Ocado Technology

Las Vegas, NV

- Reduced deployment time by creating a CI/CD pipeline in Gitlab that improved automation for the six-axis robotic arm
- Increased test coverage by 7% by creating unit tests & hardware-in-the-loop testing and refactoring API calls in C, C++
- Implemented a dynamic configuration system, reducing development time by 30% and improving hardware scalability
- Mentored team members by leading a GDB workshop, enhancing their debugging skills and proficiency

Software Engineer Intern

June 2022 - Aug 2022

Strava

San Francisco, CA

- Designed & implemented an automated pipeline to extract data from S3 and load it in Snowflake for analysis
- Implemented a batch data loading system to handle upwards of 10 million events daily
- Created an alerting system for abnormally high data volumes, improving reliability and ensuring data integrity
- Collaborated with engineers and analysts across teams to fulfill the project requirements

AI & Software Engineer Resident

Dec 2024 - Present

Headstarter

Remote

- Built machine learning, ai-engineering and full-stack projects in fast-paced software team environments
- Developed an AI app with Next.js, Vercel and stable diffusion LLM to create images based on text prompt
- Implemented an AI chatbot using Next.js on the frontend and Groq for Fast AI inference for academic research
- Coached by Google Machine Learning, Google Kubernetes, Two Sigma, Tesla, Figma and Citadel Engineers

Software Engineering Intern

Aug 2018 - Sept 2018

California Nanosystem Institute

Santa Barbara, CA

- Implemented DFS and BFS algorithms in Python to analyze propagation of epidemic graphs
- Optimized the code through efficient data structures, leading to conclusive analysis

PROJECTS

TriEval: LLM Evaluator - [TriEval Website](#) | [GitHub Link](#)

- Implemented AI chatbots using the Llama model, Gemma model and Mistral model through Groq API
- Created an evaluator with the Gemini LLM to grade the responses and added metrics like accuracy and helpfulness
- Built the frontend using TypeScript, backend using Postgres Neon Database, and deployed using Vercel

Academic ChatBot - [GitHub Link](#)

- Used Groq for Fast AI Inference to create a chatbot that answers questions about the link provided
- Used Next.js & TypeScript for a clean and user-friendly frontend interface.

Image Classification - [GitHub Link](#)

- Implemented CNN-based LeNet model for binary classification of images to predict the smiling/not smiling attributes
- Used SGD optimizer and the model made predictions with 89% accuracy

Leadership

Computer Science Tutor - Taught python programing to elementary and middle school kids

2022 - 2023

President, Women in CyberSecurity Club - Hosted Linux workshops and taught cybersecurity skills to students on campus

2021 - 2022

Webmaster, Women in CyberSecurity Club - Created the club website using JavaScript, HTML and CSS

2020 - 2021

SB Hackathon, 1st runner up - Made an app using SQLite and Django (Python framework) where students could connect with mentors.

2019

EDUCATION

University of California, Santa Barbara

Graduation: 2023

Bachelors of Science in Computer Science