

GAURAV BHAGCHANDANI

✉ gauravbhagchandani97@gmail.com | 📞 +1 (873) 355 8229 | 🔗 gauravbhagchandani | 🌐 GauravB159

SKILLS

Languages: JavaScript, Python, Go, C, Java, SQL, HTML/CSS, Bash Scripting, PHP

Frameworks / Libraries: React, Next, Node, d3, pandas, matplotlib

Tools / Platforms: AWS (S3, Lambda, CloudFront, EC2, EMR), Google Cloud (Functions, Run, Build, Artifact Registry, Firebase, Storage), Excel, Data Analysis, PySpark

PROFESSIONAL EXPERIENCE

Software Engineer Team Lead - Human Data, xAI

Sep 2024 – Present
Remote, US

- Developed a local chat interface in NextJS to quickly QA vendor data for RLHF
- Created a Python script to synthetically generate a dataset of 3000 Leetcode-like problems along with their unit tests to create conversations that could be used for LLM training
- Modified the Aider harness to allow multiple samples at each turn, improving the chance of a model passing all unit tests
- Managed a team of 15 Software Engineers, monitoring their performance and data quality while ensuring a better than average lead time per task

Full Stack Developer, Supporting Lines Institute

May 2023 – Sep 2024
Vancouver, Canada

- Conducted surveys for 24 clients to evaluate their culture and used Python to generate PDF reports
- Automated the report creation process, accelerating generation by 90% and significantly reducing human error using Python, NextJS and Google Cloud Run
- Engineered an interactive and secure dashboard using WebSockets in NextJS, providing an alternative to the existing method of creating 100+ PDFs for every filter combination

Junior Big Data Analyst (Part-time Consultant), SFU Big Data Hub

May 2023 – Dec 2023
Burnaby, Canada

- Established a framework for utilizing Large Language Models locally for various client tasks
- Developed an inference script to load models with 100B+ parameters distributed across 4+ devices
- Pioneered a QnA system for analyzing document corpora using ChromaDB and LangChain

Full Stack Developer, The Humane Club

Jun 2019 – Aug 2022
Delhi, India

- Architected and developed the core product's codebase in JavaScript, adopted by 11 clients
- Crafted a Python-based custom clustering script to efficiently allocate an NGO client's volunteers
- Elevated SEO and PageSpeed scores for client websites, achieving an average rise from 45 to 95
- Created a decision support system and dashboard library in React, used by the CEEW and 12+ clients

PROJECTS

Advent of Code | Personal Project, Python, Go, Data Structures, Algorithms



- Collected all 50 stars in 2023 while solving in Python, and 45 stars in 2024 with Go

Omnibot | SFU Project, ChatGPT, Synthetic Data

- Trained a classifier model to categorize queries into various task types using synthetic data
- Created a suite of traditional and AI-based solvers for complex tasks like Sudoku Solving, Image Classification, Resume Summarization, and Object Detection

Pathfinding in the Vancouver Transport Network using Spark | SFU Project, GTFS, PySpark, Celery

- Implemented the RAPTOR algorithm in Spark using GTFS data for TransLink Vancouver
- Innovated by adding a real-time predicted delay feature to the path-finding algorithm
- Optimized PySpark's warm-up time using Celery for improved performance in web-based queries

Project Euler | Personal Project, C, JavaScript, Python



- Solved 139 Math-based Problems using C, JavaScript and Python

EDUCATION

Master of Science in Professional Computer Science, Simon Fraser University

Sep 2022 – Apr 2024
Burnaby, Canada

- Overall GPA: 4.17 / 4.3
- Courses: Natural Language Processing, Reinforcement Learning, Data Mining

Bachelor of Engineering in Information Technology, Sardar Patel Institute of Technology

May 2015 – Jun 2019
Mumbai, India

- Overall GPA: 8.41 / 10

INTERESTS

Puzzles | Anime | Math Problems | Debugging Code | Science Fiction | Table Tennis | Gaming