Gauray Surtani

Software Developer (AI/ML) | Full-Stack Engineer | San Jose, CA |

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Core Skills & Technologies

- AI/ML: Python, TensorFlow, PyTorch, Keras, Scikit-learn, NLP (BERT, GPT, LangChain), Knowledge Graphs, Agentic AI, Computer Vision (YOLO v8), GenAI, LLMs, ChromaDB, RAG
- Data: Pandas, NumPy, SQL, MongoDB, Neo4j, BigQuery, GeoPandas, ETL, Data Viz (Plotly, D3.js, Folium), Statistical Analysis
- **Web:** JavaScript, TypeScript, React, Next.js, Angular (15/16), Node.js, Flask, FastAPI, HTML/CSS, Tailwind, REST, GraphQL, Microservices
- Tools: Docker, Kubernetes, AWS, Azure, Git, CI/CD, Jira, Wix CMS, Strapi CMS
- Soft Skills: Collaboration, Rapid Prototyping, Project Leadership, Agile, Problem-Solving, Communication

Professional Experience

Full Stack Al Engineer Bexorg, Inc. | New Haven, CT | May 2024 - May 2025

- Led cross-functional team initiatives, accelerating deployment cycles by 85% by streamlining CI/CD processes.
- Architected an async collaboration system, reducing meeting dependencies by 60% and cutting decision time from 7 days to under 4 hours.
- Designed a real-time data viewer, resulting in 45% faster data retrieval and 60% improvement in scientific analysis.
- Integrated ML-powered time series analysis and QC, reducing data issues by 70% and turnaround time by 80%.
- Developed a Gemini API-driven chatbot trained on experiment data using ChromaDB to utilize vector embeddings for RAG based chatbot.
- Prototyped a GenAl query canvas that translates natural language to visualization pipelines, making analysis 75% faster.

Machine Learning Developer | NASA Ames Research Center | Mountain View, CA | Dec 2023 - Mar 2024

- Developed a coordinate transformation pipeline (Pyproj) for flight path visualization, enabling accurate geospatial mapping in web dashboards (Folium).
- Containerized legacy systems, reducing researcher setup time from days to minutes and improving reproducibility.
- Launched a real-time time-series viewer for flight path adherence, supporting quick anomaly detection.
- Streamlined validation for 1000+ flight paths, cutting manual review from 4 hours to 15 minutes.

Research Assistant | San Jose State University | San Jose, CA | Jul 2023 - Feb 2024

- Created a real-time sensor fusion pipeline (LiDAR & KITTI) to enhance object detection and 3D bounding box accuracy using YOLO v8.
- Created OHANA, a web app for hurricane relief, integrating a Hugging Face LLM trained on multilingual mental health data—including Hawaiian—for crisis response and support center mapping.
- Prototyped multilingual TTS (Coqui, Firefox Voice) to deliver accessible support in 25+ languages.

Senior Software Engineer | Ascendion | Basking Ridge, NJ | Nov 2022 - Aug 2023

- Led a team of 15+ engineers to deliver enterprise-grade projects on time and within budget.
- Drove migration from AngularJS/13 to 15/16, reducing bundle size by 35% and improving app performance.
- Built a cloud economics dashboard, enabling teams to monitor VM usage/cost and achieve 30% cloud savings.
- Created an AI-powered VS Code extension for code quality using ChatGPT API, reducing documentation effort by 70%.
- Improved performance, cutting page load time from 23s to 2.5s and API response time by 75%.

Software Engineer | Collabera Inc. | Basking Ridge, NJ | Dec 2021 - Dec 2022

- Crafted an SRE & DevOps assessment tool, reducing operational overhead by 20% through scoring calculations.
- Designed a W3C-compliant Angular component library (40+ components) for rapid UI development.
- Implemented Azure ML workflows into a web app, enabling real-time data synchronization and automated processing.

Software Developer | LIBS | Cotonou, Benin | Jan 2021 - Nov 2021

- Led a team of 10+ engineers to deliver a warehouse and sales management system deployed across Africa.
- Orchestrated Tally cloud integration with warehouse management system using AWS Lambda for serverless data processing and EC2 for hosting core services, reducing manual intervention by 65%.

Software Engineer | Accenture | Pune, India | Oct 2018 - Dec 2020

- Optimized ETL pipelines for Barclays data migration, ensuring high data integrity and reliability.
- Implemented comprehensive data validation and QA checks, reducing errors and rework.
- Built automated ETL monitoring and reporting tools, improving operational oversight.

Frontend Developer Intern | Enthralitech Pvt Ltd | Pune, India | May 2018 - Oct 2018

- Led frontend development for an EdTech platform using Angular and MongoDB.
- Researched on a NoSQL/MongoDB chatbot for automated student support through Fuzzy Search, enhancing user engagement.

Education

Degree	Institution	Location	Year
M.S., Artificial Intelligence	San Jose State University	San Jose, CA	Aug 2023 – May 2025
B.E., Information Technology	Pune University (SAE)	Pune, India	Aug 2014 - May 2018