

NARESH KUMAR KAUSHAL

Austin, TX

☎ +1 530-231-0413 ✉ kaushalnaresh2689@gmail.com in [nareshkumarkaushal](#) 🌐 [KaushalNaresh](#) 📁 [Portfolio](#)

EDUCATION

University of California, Davis

Master of Science in Computer Science; GPA: 3.93/4.0

Davis, CA

Sep 2022 - Jun 2024

Indian Institute of Technology Goa (IIT GOA)

Bachelor of Technology in Computer Science And Engineering; GPA: 3.9/4.0

Goa, India

Aug 2017 - May 2021

TECHNICAL SKILLS

Programming & Web Development: Python, Java, JavaScript, React.js, TypeScript, Node.js, AJAX, JSON, Selenium, REST APIs, GraphQL, SQLAlchemy, PostgreSQL, MySQL, MongoDB (NoSQL)

AI/ML & Advanced Frameworks: PyTorch, LangChain, LangGraph, OpenAI APIs

DevOps & Tools: Linux, Git, Docker, Kubernetes, AWS, GCP, Jenkins, Buildkite, SonarQube, Grafana, Maven, Spring Framework

Monitoring & Testing: Kafka, Kibana, Datadog, JIRA, Postman, Factory-boy, Pytest, Jest, Swagger, JUnit

EXPERIENCE

Wayfair | Software Developer 1 - Full Time

Austin, TX | Jul 2024 – Present

- Developed an automated exception engine using **Python, GraphQL, PostgreSQL, TypeScript** to eliminate shipment issues with potential financial risk across microservices, automating **35 distinct workflows** and enhancing operational efficiency.
- Enhanced tracking service using **Python, Kafka** and **GCP** capturing **90%** shipment milestones in real time from API's and EDI services improving tracking accuracy by **15%**
- Optimized container handling timelines in shipment management, driving a **40% revenue increase**
- Developed an intelligent AI agent using **Python, Langchain, Langgraph** and **OpenAI (LLM) API** to automate basic **CRUD** operations, **OCR** on documents reducing manual workload.

Center For Mind And Brain | Machine Learning Researcher - Part Time

Davis, CA | Apr 2023 – Dec 2023

- Led a team of 4 to develop a **GenAI**-driven multimodal speech synthesis model using **PyTorch, CNN, transformers** and **seq-to-seq** techniques to restore voice in patients with speech disorders, **reducing word error rate (WER) to 29%**
- Managed clinical trials involving laryngectomy patients, implementing **python** scripts for accurate recording and **synchronization** of sEMG and video signals, enhancing data integrity and trial efficiency.

WOAS Technology | Full Stack Developer - Full Time

Bengaluru, India | Jun 2021 – May 2022

- Spearheaded a team of 5 in the development of an interactive gallery, using **Java, HTML** and **CSS** following agile methodologies, enabling users to pin feedback on images and send notifications; increasing customer engagement by **45%**
- Designed new optimized **RESTful APIs** for microservices using **Java, Spring boot** achieving a **25% reduction in critical response times** and documented all API functionalities comprehensively using **Swagger**
- Managed end-to-end software development, using **Jenkins** for **CI/CD** pipeline, **JIRA** to resolve **100+ bugs**, and **JUnit** for unit testing, ensuring product stability and reliability.

Planful | Software Developer Engineer - Full Time

Hyderabad, India | Jun 2020 – Dec 2020

- Developed a **.NET** console application in **C#** and integrated it with **MySQL** to automate anomaly detection in financial data, enhancing data accuracy and **reducing prediction errors** in financial planning models by **40%**
- Collaborated with senior developers in debugging using **NUnit** framework, resolving over 30 issues tracked in **JIRA**. Documented results in **Confluence** to streamline knowledge transfer.

PROJECTS

Personal AI Assistant using LLMs | Python, LangGraph, LangChain, OpenAI, Anthropic, n8n

- Developed an AI-driven personal assistant to process telegram text and audio messages, executing dynamic actions like sending emails and scheduling calendar events via API integrations and LLMs

Student Community @ Davis (Link) 📄 | React.js, Node.js, MongoDB, CSS

- Co-founded and lead the development of open source full-stack web application using **React.js, MongoDB** and **Node.js** aimed at enhancing academic and social experience of student community at UC Davis.
- Engineered the **frontend UI/UX** for the dashboard and roommate finder feature while designing secure and efficient **RESTful APIs** to ensure fast and reliable data access.

Data Engineering for Political Analysis (Link) 📄 | API, Selenium, Web Scraping, Python

- Designed a **Python** Dash app to visualize in-depth political analysis of USA by scraping web pages using **selenium**, extracting data using **APIs** from sub-reddits and various News sources.
- Implemented **Linear Regression** model to explore the relationship between demographic factors and sentiments on various topics and visualized these insights using **JavaScript**.
- Employed **Latent Dirichlet Allocation (LDA)** for thematic analysis of news content across the political spectrum, revealing linguistic patterns and potential biases impacting public opinion.

AWARDS

- Secured research funding for the 'Silent Speech' project, earning recognition for leveraging IT research to address societal challenges.
- Received the prestigious Bronze Medal at IIT-GOA for securing the second rank in the Computer Science department, awarded to the top two students in recognition of their academic excellence