Naresh Kumar Kaushal

Austin, TX

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EDUCATION

University of California, Davis	**Davis, CA**
Master of Science in Computer Science; GPA: 3.93/4.0	*Sep 2022 - Jun 2024*
Indian Institute of Technology Goa (IIT GOA)	**Goa, India**
Bachelor of Technology in Computer Science And Engineering; GPA: 3.9/4.0	*Aug 2017 - May 2021*

TECHNICAL SKILLS

Coding Languages: Python, Java, JavaScript, C++
Web Technologies/Databases: React.js, TypeScript, REST APIs, GraphQL, SQLAlchemy, PostgreSQL, MySQL, MongoDB (NoSQL), Next.js, Node.js, Jest, AJAX, JSON, Redux, Selenium
Tools and Softwares: Kafka, Kibana, Datadog, JIRA, Linux, Git (version control), Postman, Maven, Factory-boy, Pytest, Jest test, Swagger, AWS, Kubernetes, Docker, JUnit, CUDA, PyTorch, Tensorflow, Keras, GCP, Spring framework, .NET framework, Buildkite, Jenkins, SonarQube

EXPERIENCE

Wayfair | *Software Developer 1 - Full Time*   **Austin, TX | Jul 2024 – Present**
- Collaborated on developing an exception management system using **Python**, **GraphQL**, **PostgreSQL**, **Typescript** and **Kafka** across micro-services to communicate shipment delays, holds and disputes enhancing operational efficiency and issue tracking.
- Implemented a feature for strategic optimization of container handling timelines in shipment management service working closely with the supply chain and retail tech team resulting in a **15%** increase in revenue.
- Designed an intelligent chatbot using **Python**, **TypeScript** and the **OpenAI API**, trained on Wayfair operating procedures to automate CRUD operations, streamline shipment tracking, and provide quick issue resolution for the operations team.

Center For Mind And Brain | *Machine Learning Researcher - Part Time*   **Davis, CA | Apr 2023 – Dec 2023**
- Led a cross-functional team with **Accenture** to develop a **machine learning** model using **CNN**, **attention**, **transformers** and **seq-to-seq** techniques to generate speech in patients with speech disorders achieving 29% WER.
- 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 Pvt. Ltd. (Wooqer) | *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 **Spring MVC** framework following agile methodies, enabling users to pin feedback on images and send notifications; increasing customer engagement by 45%
- Architectured new **RESTful APIs** for microservices using **Java** and optimized **web APIs** to enhance performance, achieving a **25%** reduction in critical response times. Documented all API functionalities comprehensively using **Swagger**
- Managed end-to-end software development, using **Jenkins** for **CI/CD** pipelines, **JIRA** to resolve 100+ bugs, and **JUnit** for unit testing, enhancing product stability and customer service satisfaction.

Planful (Host Analytics) | *Software Developer Engineer - Co-Op*   **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 on code review and debugging using the **NUnit** framework, resolving over 30 issues tracked in **JIRA**. Documented code in **Confluence** to streamline knowledge transfer.

PROJECTS

Data Engineering for Political Analysis *(Link)* 🉁 | *API, Selenium, Web Scraping, Python*
- Utilized diverse suit of tools including web **APIs**, **selenium** and **web scraping** techniques to extract data from subreddits, demographic databases, and news sources, consolidating into a single **SQLite** database for in-depth political analysis.
- Implemented **Linear Regression** model to explore the relationship between demographic factors and sentiments on various topics and visualized these insights using **JavaScript** and python's **Dash** application.
- Employed **Latent Dirichlet Allocation (LDA)** for thematic analysis of news content across the political spectrum, revealing linguistic patterns and potential biases impacting public opinion.

Indian 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** design for dashboard and roommate finder feature using **React.js** and **CSS**.
- Designed secure, efficient **RESTful APIs** with **Node.js** and **Express.js** for backend, ensuring compliance with industry security standards and optimizing data retrieval for minimal response times.

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