

Akshat Gupta

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EDUCATION

Master of Science, Computer Engineering

San Jose State University, CA, United States

Aug 2023 - May 2025

GPA – 3.66/4.0

Relevant Courses: System Software, Data Mining, Advance Computer Design, Deep Learning

Bachelor of Engineering (B.E.), Computer Science

Savitribai Phule Pune University (SPPU), Pune, India

Aug 2018 - Aug 2022

GPA – 3.7/4.0

Relevant Courses: Data Structures and Algorithms, Database Systems (Exploring relational databases like those that underpin services at Microsoft & Netflix), Artificial Intelligence, Machine Learning

TECHNICAL SKILLS

- **Programming Languages:** Python, Javascript, C#, C++, Bash, SQL, NUnit
- **Web Development:** React.JS, React Router, Tailwind CSS, Material-UI, Figma, HTML, CSS
- **Backend:** Flask, Node.JS, Express.JS, ASP.NET Core Web API, MongoEngine, PyMongo, GraphQL
- **Databases and Cloud Technologies:** MySQL, MongoDB, Entity Framework, Docker, Amazon Web Services (AWS Sagemaker, S3 Bucket, EC2), Google Cloud Platform (Compute Engine, App Engine, Cloud Run, Buckets, Google Firestore etc)
- **Tools & Frameworks:** Postman, MS SQL Server Management Studio, Mongoose, Git, Gitlab, Jira, OpenCV, Tensorflow

EXPERIENCE

Research Assistantship, SJSU Research Foundation, San Jose, CA, USA

Feb 2024

Node.Js, React.JS, GCP Firestore, Cloud Run, Express.Js, FastAPI, UI/UX Design ([Project Link](#))

- Developed a full-stack web application for the **AANH community** enabling users to contribute and interact with knowledge-based resources in more than **50** local languages.
- Collaborated with a cross-functional team to analyze and redesign webpage content, significantly boosting the productivity and user satisfaction of internal stakeholders.
- Deployed the application using **GCP App Engine** and **Cloud Run**, managing data storage in Cloud Storage and Firestore.

Software Engineer, Cognizant, Pune, India

Sep 2022 - July 2023

Node.Js, React.JS, MySQL, MS Azure, REST APIs, Microservices

- Developed stock and fulfillment APIs facilitating the stock count data access using SQL Server and Entity Framework, replacing the existing MVC pattern and resulting in over a **22%** faster processing time.
- Implemented **HTML, CSS, and JavaScript enhancements** to ensure compliance with **web accessibility** standards, improving navigation and accessibility for users with disabilities.
- Tackled **120+** Jira tickets, enhancing development & stability by efficiently addressing bugs & tests reported by the testing team.
- Developed and shipped customer-facing features, ensuring high-quality robust code, which was easy to extend.

Full Stack Engineer Intern, Cognizant, Pune, India

Feb 2022 - July 2022

Node.Js, JavaScript, React, MS Azure, MongoDB

- Engineered robust stock and fulfillment APIs using Node.js, React.js, and MySQL on MS Azure, achieving a 22% increase in processing speed by optimizing existing data handling practices.
- Deployed relational databases and REST API based web app on Microsoft Azure Cloud App Service and SQL Server platform, optimizing performance, resulting in a **39%** boost in response speed.
- Integrated an exchange rate calculation feature into the portal, enhancing global accessibility and accurate currency conversion.

Project Intern, Intangles Lab, Pune, India

Oct 2021 - Feb 2022

Python, React.js, Google Firebase, Computer Vision

- Devised data-driven insights, enabling transit companies (like RedBus, Volvo etc.) to achieve a substantial **34% reduction in fuel consumption** and capturing around **1 million gallons of fuel theft amounting to \$3.5 Mn** through real-time monitoring.
- Spearheaded the development of a dashboard for real-time vehicle monitoring using Python and React.js, which decreased fuel consumption by 34% through enhanced data visualization and analytics.
- Proposed and developed **end-to-end dataset creation pipeline** aiding in live image capture of **16000+ facial images** of drivers across varying environmental conditions.

PROJECTS

WingView: GUI, [Team Garudashwa](#)

May 2020

Python, Flask, React, Firebase,, CSS Grid & Flexbox

- Designed an interface dashboard for displaying real time altitude, time of flight, etc. of the UAV helping the team to automate multiple functionalities wirelessly from the ground station & achieving a **9th position globally** in **SAE AeroDesign West 2020**.
- Integrated Google Firebase with ReactJS for data storage, consistently achieving real-time updates within **2** seconds.

Computer Vision based Product Inspection, [IIT Delhi - AIA FSM](#)

July 2021

Python, Flask, OpenCV, CNN, Tensorflow

- Performed data augmentation, pre-processing and trained multiple convolutional neural network models to classify faulty injection molded products with an accuracy of **89.4%**.
- Worked closely with mentors to rapidly onboard and learn new technologies while contributing to the overall success of the team.