

VAIBHAV OBEROI

BACKEND DEVELOPER | PYTHON DEVELOPER

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PROFESSIONAL EXPERIENCE

<b>Ekyam.ai</b> <b>Software Development Engineer - 2</b> <ul style="list-style-type: none"><li>Architected and developing <b>EKYAM Core V2 (Python FastAPI)</b> end-to-end, creating robust integration pipelines to sync products, orders, purchase orders, transfer orders and other entities between major retail systems (e.g. NetSuite ↔ Shopify).</li><li>Developing AI-ready ETL and transformation pipelines, standardizing diverse retail data (SKU variants, seasonal catalogs, omni-channel orders, inventory levels) into Ekyam’s canonical ontology to enable instant cross-system analytics and automated operations.</li></ul>	Nov 2025 – Present
<b>Lobb Logistics, Bangalore, Karnataka</b> <b>Software Development Engineer</b> <ul style="list-style-type: none"><li>Developed <b>Lobb Care Control Tower</b> on top of <b>FastAPI</b> which assists the management in quick resolution of priority tickets allocated across diverse teams including administration, finance, sales and operations. The solution resulted in a reduction of ticket resolution time by <b>56%</b>.</li><li>Developed <b>Heuristic View</b> for showcasing some critical key metrics of various truckers and transporters affiliated with Lobb such as pending payable/receivable amount, trucks owned, common routes, trips done, user comments etc, leading to a <b>34%</b> increase in logistical efficiency.</li></ul>	April 2024 – Sep 2025
<b>Xlscout, Mohali, Punjab</b> <b>Software Product Developer – 2</b> <ul style="list-style-type: none"><li>Steered the development of <b>Novelty LLM</b> which is the upgraded version of Novelty Checker by leveraging the open-sourced <b>ParaEmbed</b> embedding model fine-tuned on patent and technology data in collaboration with <b>Hugging Face</b>, resulting in <b>40%</b> better result quality.</li><li>Developed <b>Drafting LLM</b> on top of <b>Django</b> utilizing <b>Large Language Models</b> and <b>Generative AI</b> which makes automated patent drafting <b>43%</b> faster and efficient, integrated <b>image to text Vision AI</b>, implemented encryption and decryption mechanisms using <b>Fernet</b> algorithm to secure client’s data.</li><li>Fostered the development of <b>Usage Global Counter</b> module on top of <b>Flask</b> which monitors the utilization of all modules of Xlscout. The module helped the marketing team in optimizing their marketing strategies and increasing their client conversion rate by <b>37%</b>.</li></ul>	August 2022 – Feb 2024
<b>Software Product Developer - 1</b> <ul style="list-style-type: none"><li>Accelerated the development and integration of the following features in Ideacue: Idea Generation leveraging <b>GPT-3.5</b> and <b>GPT-4</b> models, draft independent claims, check novelty, and merge concepts, resulting in <b>44%</b> increase in submitted ideas.</li><li>Orchestrated the implementation of <b>Ideacue Dashboard</b> within Novelty Checker, enhanced research productivity by <b>22%</b>, empowering researchers with valuable insights and <b>novel idea exploration</b>.</li><li>Pioneered the deployment of advanced features in Novelty Checker including search within automated results, bucketing, manual patent addition, report and patent summary generation, resulting <b>35%</b> reduction in research time.</li><li>Devised and executed <b>equal priority</b> logic in Novelty Checker using <b>celery</b>, ensuring unbiased user experience and fostering inclusivity, resulted in a <b>27%</b> increase in user engagement and strengthened product loyalty.</li><li>Led the end-to-end development of <b>Novelty Checker</b> on top of <b>FastAPI</b> framework in <b>Python</b>, leading to a substantial <b>64%</b> growth in client base and revenue by delivering a cutting-edge solution for patent idea novelty assessment through <b>key feature mapping</b>.</li></ul>	
<b>39k Group, Gurugram, Haryana</b> <b>Software Development Engineering Intern - Python</b> <ul style="list-style-type: none"><li>Written python scripts for seamless retrieval of <b>high frequency trading data</b> from <b>6</b> prominent exchanges, leveraging <b>Rest APIs</b> and <b>Websockets</b> for fetching data, and storing in <b>PostgreSQL</b> database.</li><li>Optimized the latency by <b>50%</b> which ensured <b>2 times</b> faster order execution speed.</li><li>Architected a highly interactive frontend using <b>React.js</b>, asynchronously rendering real time updates of Deribit order books and open orders, leading to optimization of trading efficiency by <b>24%</b>, enhancing responsiveness and enabling faster decision making.</li><li>Built a robust frontend on top of <b>HTML</b>, <b>CSS</b>, <b>JavaScript</b>, which renders the log messages of <b>4</b> production dynos running on <b>Heroku</b>.</li></ul>	January 2022 – June 2022

SKILLS

- Programming Languages:** Python, JavaScript
- Web Development:** HTML, CSS, React.js
- Python Frameworks:** Django, Flask, FastAPI
- Python Libraries:** Pandas, Numpy, Matplotlib, Requests, Beautiful Soup, Tensorflow, Keras, Scrapy etc
- Database:** MongoDB, MySQL, PostgreSQL, Flyway (DB migration tool)
- API Development:** Rest APIs, Websockets
- Version Control:** Git, Github, Github Actions, BitBucket
- Containerization Tools:** Docker
- Computer Vision:** OpenCV, Image Processing
- Cloud:** Google Cloud, Amazon AWS

CODING PROJECTS

<b>Sudoku Solver</b> <ul style="list-style-type: none"><li>Developed a highly efficient Sudoku Solver Web Application by integrating a <b>recursive backtracking algorithm</b> to solve a diverse collection of <b>19000</b> sudoku samples within an impressive <b>1-second</b> timeframe.</li><li>Trained a highly accurate, customized deep learning model to recognize sudoku digits, delivering an exceptional accuracy of <b>98.1%</b> on the <b>Keras MNIST</b> dataset.</li></ul>	<a href="#">GitHub</a> <a href="#">YouTube</a>	January 2021 – February 2021
<b>Space Invaders Game</b> <ul style="list-style-type: none"><li>Engineered a captivating Space Invaders Game in python, incorporating the <b>turtle module</b> for visually stunning graphics and engaging gameplay, while seamlessly integrating <b>OpenCV object detection</b> and <b>tracking</b> for an immersive gaming experience, achieving an outstanding <b>97%</b> detection accuracy.</li><li>Automated and smoothly tracked the game’s movement with the green cap of a highlighter leveraging <b>PyAutoGUI module</b> with <b>96%</b> automation accuracy.</li></ul>	<a href="#">GitHub</a> <a href="#">YouTube</a>	June 2020 – September 2020

ACHIEVEMENTS

- Honored with the renowned **Employee of the Quarter** award from Xlscout for the development of remarkable and impactful solutions that enhanced Novelty Checker’s accuracy by **30%** and reduced time consumption by **25%**. **Link:** [Quarterly Award](#).
- Solved **400+** problems on **LeetCode** and completed **June Daily Leetcoding Challenge**, maintaining **40** days streak.
- Drove hands-on exploration of **Google Cloud Platform (GCP)** as part of the prestigious **GoogleCloudReady** Facilitator Program, completed **30** quests and earned **15** skill badges, mastered cloud technologies for scalable and efficient software solutions. **Link:** [Qwiklabs](#).
- Qualified Gate exam in 6<sup>th</sup> semester with All India Rank **7421**.
- Scored **1613** out of **1800 (89.6 %)** in the highly regarded TCS NQT September 2021.

EDUCATION

<b>AKTU University</b> , Lucknow, Uttar Pradesh Bachelor’s of Technology in Computer Science Aggregate Percentage: 84%	September 2018 – July 2022
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