

EDUCATION

– Master of Engineering - Computer Engineering University of Virginia, USA	Aug '22 - Dec '23
<i>Coursework: Machine Learning in Image Analysis, Cloud Computing, Human Computer Interaction</i>	GPA: 3.85 / 4.0
– Bachelor of Technology - Computer Science Gyan Vihar University, India	Feb '19 - Jul '22
<i>Class topper and secured 3 placement offers in final semester</i>	CGPA: 9.04 / 10

PROFESSIONAL EXPERIENCE

Software Engineer | Fleksa GmbH  May '21 - Jul '22
German-based startup offering solution for restaurants to grow digitally | Became Founding Member after joining full-time

Objective	<ul style="list-style-type: none"> – To build products orchestrating entire operation including online orders, portal, inventory update, daily analytics – To integrate various business services with code making it easier to switch, rely and increase interaction with customers – To introduce Eatarian platform helping customers see all types of restaurants nearby across Germany at one place
Operations	<ul style="list-style-type: none"> – Built admin portal and designed database schema to support multiple currencies, time-zones, languages and payment methods – Launched REST APIs for fetching information, checking delivery possibility and apply offers with various configurations – Designed cloud architecture to handle 500+ domains, auto-scaling, storage systems, and protect against DOS attacks on AWS – Integrated Google Partnerdash reservation and MyBusiness services, accounting and multiple communication channels
Impact	<ul style="list-style-type: none"> – Released suite with features including unique domain, IAM authorization, tracking orders and delivery location selection – Increased thousands of monthly repeating users and orders with launch of loyalty program & up-selling system APIs – Received 50% more reservation after launching maps bookings services and owners controlled presence on Google


Tech Lead | Crewbella Pvt Ltd  Jul '20 - Aug '21
An ecosystem for professionals to share work & hire through secure digital contracts | Co-founded with seniors

Objective	– To create a platform allowing people to posts requirements, initiate online contract and securely pay/get-paid for the work
Operations	<ul style="list-style-type: none"> – Programmed entire platform and hosted on Nginx. Used Firebase for authentication. Integrated multiple payment gateway – Made notification system with automated triggers using cron-jobs resulting in 1 in every 3 users returning weekly
Impact	<ul style="list-style-type: none"> – Launched webapp in 12 weeks and 3000+ user signed-up within first month. Successfully completed 5 initial transactions – Optimized server load by about 30% by applying 5+ cloud services. Server handled almost 100 users/sec at peak times


Software Engineer Intern | Zopnik Pvt Ltd  Nov '20 - Jan '21
E-commerce platform for MSME sector in India

Objective	– To collect and organize groceries related inventory information from various sources and make it accessible and useful
Operations	<ul style="list-style-type: none"> – Scrapped data from 7+ different sources, saved as JSON files processed and structured it to fit system's database design – Developed a search engine based off Elasticsearch containing 200,000+ grocery products with low latency and custom rules
Impact	<ul style="list-style-type: none"> – Increased inventory items addition by 12% and suggested similar product images with help of recommendation engine – Helped business better compare and analyze prices and supply-demand of products based on geo-location and timing


PROJECTS

Image Segmentation  | Course Project Fall '22


- Trained and tested a SegNet based model on medical images. Up-sampled training data by augmenting and calculated dice score results
- Improved memory consumption and decoder network with ideas from paper: SegNet: A Deep Convolutional Encoder-Decoder Architecture

Proton in Unity  | Research Work Sep '22 - Present

- Working on fabricating a 3D Model of Proton in Unity VR. Developed element level mechanics and properties of various particles
- Learned about Project Management, C# Language, Virtual Reality, and how the Physics engine can help in simulating elements

Data Analysis  | Personal Project Nov '20

- Scrapped 250,000+ public user data from Twitter platform. Analyzed & plotted locations, bios, tweets, etc. based on multiple factors
- Utilized selenium library for collecting information, threading for concurrent tasks and rendered website frontend with GraphJS library

Image Color Correction Extension  | Course Project Fall '22

- Developed a browser extension to help color deficient people see better. Sent all images to server and returned a corrected image object
- Won the prize for best project amongst 14 teams. Responsible for building frontend, standing server and adjusting researched algorithm

SKILLS

Certification:	Python Institute (PCAP) - Certified Associate in Python Programming [August 2020]
Languages:	Python, JavaScript, TypeScript, Java, C#, R Lang
Databases:	MySQL, MongoDB, Elasticsearch, Redis
Tools:	Numpy, Flask, NodeJS, AWS Cloud, Photoshop, Jira, Figma, Bootstrap, Firebase

POSITIONS OF RESPONSIBILITY

- Led team of 3+ developer interns with a result-oriented mentality focusing on different specifications at Fleksa and ensured timely delivery
- Organized multiple sessions with guest speakers in undergraduate to help students navigate challenges faced while building careers
- Teaching Assistant at UVA. Working 10 hrs / week to grade assignments and hold office hours to help students with problems and concepts
- Research Assistant as System Organizer for Unity Project. Managing collaboration between team of developers & physicists