

# AYON SAMAJDER

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## EDUCATION

### Bachelor of Science in Computer Science and DevOps Engineering

National Research Tomsk State University

Awarded the Ministry of Higher Education & Science Scholarship, selected from 10,000+ international applicants

Overall GPA: 3.5

From Sept 2022

## EXPERIENCE

### Python Developer Intern

Alfalgo, Inc

Mar 2023 - Nov 2023

- Developed real-time market data processing system, handling 100,000+ transactions per second with 99.99% uptime.
- Integrated machine learning models with the data pipeline, improving trade prediction accuracy.
- Implemented CI/CD pipelines using Jenkins, reducing deployment time by 70% and eliminating manual errors.

### Software Developer Intern

Intellify

Aug 2022 - Mar 2023

- Collaborated with the data science team to implement scalable RESTful APIs using Django and PostgreSQL.
- Enhanced database query performance, reducing response times for ML-driven applications.
- Assisted in containerizing machine-learning models using Docker for consistent deployment.

### Backend Developer Intern

WorldInteria

Jun 2022 - Aug 2022

- Architected and optimized REST APIs for machine learning applications, reducing response times by 20%.
- Designed a real-time analytics dashboard to monitor model performance using Python.

### Web Developer Intern

Smilecure Lifestyle

Apr 2021 - Oct 2021

- Developed a multi-level appointment booking system using PHP, MySQL, HTML, JS, and Bootstrap, streamlining the booking process and increasing customer satisfaction.

## TECHNICAL STRENGTHS

Languages	Golang, Python, JavaScript
Technologies	Django, Celery, Kafka, Websocket/gRPC
Databases	PostgreSQL, Redis
Tools	Docker, Kubernetes, Jenkins, Terraform

## CERTIFICATIONS

Introduction to Cloud Infrastructure Technologies - The Linux Foundation

DevOps and Site Reliability Engineering - The Linux Foundation

## PROJECTS

### Automated Optical Fiber Characterization System - Python, OpenCV, Signal Processing

GitHub Link

- Built an automated measurement setup for optical fiber characterization & a web dashboard for real-time data visualization.
- Developed functionalities including hardware control interface for laser sources using PyVISA & validated system accuracy
- Analyzed fiber core/cladding structure, MFD & use signal processing algorithms to measure attenuation & dispersion.

### In-memory Database - C/Sockets

GitLab Link

- A Redis-like database server implemented in C using a tree-based data structure and handles client connections via sockets. Up to 1,000 concurrent connections with an average response time of 1 ms
- Wrote and published a python package to connect and work with the database. [See here](#)