

# Sohang Chopra

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## EXPERIENCE

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### Software Engineer

January 2022 – Present

*MFilterIt*

*Noida*

- Enhanced translation **efficiency** by over 600% through **multithreading** and chunking, streamlining workflow by processing tasks in parallel
- Engineered a **real-time face swap** feature for video streams using **AWS EC2 GPU server**, enhancing user interaction by integrating celebrity face overlays.
- Collaborated in a multi-disciplinary team of 10+ to develop **Flask microservices** for data analytics with a **MySQL database**, ensuring CCPA compliance in advertising strategies.
- Fine-tuned **Natural Language Processing** models with **Keras** and **PyTorch**, specializing in text detection and generation tasks.
- Implemented content monitoring and data collection tools using **Selenium**, **AWS Lambda** and **Pandas** to identify and analyze discrepancies in client web and mobile platforms.

### Data Analyst (Intern)

October – December 2021

*Trade Global*

*Delhi*

- Analyzed 10 GB of historical stock data efficiently with **Pandas** in **Jupyter Notebook**.
- Backtested over 10 stock strategies using Zerodha Kite API on historical data to select optimal trading strategies.

### Software Engineer (Intern)

April — September 2021

*Arcon Cybersecurity*

*Mumbai (Remote)*

- Made a flexible **GUI** Interface using **WPF Framework (C#)** to create automated web tasks through a flow chart.
- Enabled easy execution of created tasks multiple times using **Selenium**, a web automation library.

### Front End Web Developer (Intern)

June 2019

*Blazar Software Solutions*

*Delhi*

- Created beautiful web pages for a project, using **HTML5 & CSS** with **Bootstrap** components.
- Learned SEO tasks, optimizing page load times via Developer Tools.

## PROJECTS & OPEN SOURCE CONTRIBUTIONS

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### Contributor: Flask-SocketIO Type Stubs in Python | *Python, Flask, Open Source*

- Contributed type stub files for Flask-SocketIO (a **Flask** extension library) in **Python** typeshed, enhancing static type checking. The pull request was successfully merged.

### IForth (Jupyter kernel for Forth) | *Python, Forth, Open Source*

- Revitalized the abandoned IForth **Open Source** repository by adding code prettification, shell command support, and stability enhancements including kernel termination management.
- Packaged and published the enhanced IForth as a **Python** package and facilitated deployment with a new **Dockerfile**, and added documentation for easy use.

### Login using Face Detection | *Python (FastApi), HTML / CSS / JS*

- Web-based prototype for Login using **Face Detection**, with proper usage documentation.

## EDUCATION

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### Dayalbagh Educational Institute

Agra

*Bachelor of Technology in Electrical Engineering, Minor in Computer Science*

*July 2018 – May 2022*

## TECHNICAL SKILLS

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**Languages:** Python, SQL, HTML / CSS / JavaScript, JSON

**Frameworks & Libraries:** Flask, FastApi, Pydantic, Selenium, Data Exploration with Numpy & Pandas, Matplotlib

**Skills & Concepts:** AWS (Lambda, Fargate, ECS, EC2, S3), Docker, Linux, MySQL, Jupyter Notebook, Full Stack Web, Web Scraping, Arduino Programming, MVC, Object Oriented Programming, Git, Open Source

## ADDITIONAL TECHNICAL SKILLS

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**Haskell:** Implemented a JSON parser from scratch using Parsec: <https://github.com/sohang3112/json-parser>