

# SEBASTIAN TARE

Software Engineer

## PERSONAL INFORMATION

---

- Full Name: Sebastián Tare Bustos
- Birth Date: 15/11/1993
- Nationality: Chilean
- Gender: Male
- Contact: sebastiantarebustos@gmail.com / +56 9 9690 0533 / sebastiantare.xyz
- Address: El Roble 665, Penco, Región del Bío-Bío, Chile.
- Languages: Spanish (native), English (fluent).
- Marital Status: Single
- Children: None

## TECHNICAL STRENGTHS

---

<b>Computer Languages</b>	Python, JavaScript/TypeScript, C++, Bash, Java.
<b>Skills</b>	Problem Solving, Technical Analysis, Team Work player, Database Management CI/CD, Data Analysis, IoT.
<b>Techstack</b>	Django, Flask, Docker, Git, PostgreSQL, Firebase, Node.js Express.js, Nginx, MongoDB, SQLite, Linux, Azure, AWS, PyTest Matplotlib, Scikit-learn, Pandas, Tableau, Selenium, Airflow

## EXPERIENCE

---

**Freelance** Oct 2023 - Jan 2024  
*Freelance Developer* *Online*

- Utilized Python, pandas, scikit-learn to clean data, and perform EDA, and selenium, b4s and airflow to scrape data from websites.
- Trained several models for regression, classification and forecasting tasks with the provided data from my clients.
- Utilized different feature engineering, feature selection and hyper-parameter optimization techniques.
- Optimized significantly the performance of my client's model, increasing the accuracy from 66% more than 90%.
- Made a customizable dashboard with Streamlit to upload, forecast and export monthly volume of sales by sales team with ARIMA/SARIMAX.
- Made a dashboard for an integrated perimetral security system using Django, React and Raspberry Pi.

**Architecture Department UBB** Aug 2022 - Dic 2022  
*Freelance Developer* *Concepción*

- Developed a custom form application using React Native, Typescript and Firebase to facilitate research analysis on the impact of architecture on student's performance in schools.
- Utilized React Native to create a cross-platform solution, ensuring compatibility with both iOS and Android devices, and Firebase for real-time data storage and synchronization.

**Supervigilancia ltda.** Mar 2018 - Jul 2022  
*Junior Software Engineer* *San Pedro de la Paz*

- Designed and implemented an automated security system for apartments.
- Integrated IoT devices, SIP phones, and a client mobile app into the system, enhancing its capabilities and functionality.

- Designed a dashboard exclusively for operators, facilitating efficient monitoring and control of the security system, with technologies like React.js, SQL (Postgres), Node.js, Javascript/Typescript, MQTT, Linux, Firebase, Python and Docker.
- Collaborated with the team and client to deploy the system into production.

### **Focoosin**

*Freelance Developer*

Jun 2019 - Mar 2020

*Online*

- Collaborated as a front-end React web developer for an Start-Up about an intelligent team management dashboard.
- Contributed to the integration of front-end and back-end development with Django API.

### **3SOFT ltda.**

*Internships*

Jul 2016 - Dic 2016 / Jul 2017 - Dic 2017

*San Pedro de la Paz*

- First Internship (6 months): Development of car plate detection camera with Raspberry Pi with Java.
- Second Internship (6 months): Development of dashboard for remote industry to display info from server with Javascript.

## **PROJECTS**

---

### **Chilean Fires Dashboard**

- Utilized NASA's FIRMS platform to extract satellital fire data from Chile between 2013- 2024.
- Analyzed the data with Python, Jupyter Notebook, Pandas, Geopandas, DBSCAN, Plotly and SNS.
- Generated different visualizations of fires data over time and utilized DBSCAN to detect clusters of fires.
- Extracted the MBR out of the clusters as Polygons and calculated the intersection between them to further analyze.
- Built an API with Django and a Dashboard with React as an MVP to visualize the wildfires in an interactive map.
- Designed and built an App in Expo for a paid version of the service, which includes personalized notifications for the client's locations when wildfires appear nearby.

## **EDUCATION**

---

### **Universidad del Bío-Bío (UBB)**

- Software Engineer Degree (2017) "Analysis on feature selection algorithms for protein-protein interaction features."
- Computer Science Master Course (2018)

## **INTERESTS**

---

SaaS, Machine Learning, IoT, Innovation, Oil Painting.