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# **Experience**

#### **Incoming Software Engineer**

**April 2023** 

GOOGLE New York City, NY

• Joining the DevSite Publishing Backend team

## **Software Engineering Intern**

January 2023

SCOVILLE CO., LTD.

Tokyo, Japan

- Collaborated in a team of 5 interns to research and develop author obfuscation techniques, which involved combining multiple NLP-based methods to conceal the stylometric identity of authors
- Developed a production-ready application using Flask and PostgreSQL to implement the backend, and utilized React and TypeScript to create a performant and scalable interface for calling these AI models

### **Software Engineering Intern**

June - August 2022

GOOGLE

Mountain View, CA

- Worked with the Flutter team in their efforts of supporting internal services on new desktop applications
- Implemented a Flutter plugin for storing and uploading logs in first-party desktop apps using bidirectional communication through method channels between the plugin's API (Dart) and its implementation (Objective-C/C++)
- Introduced a large scale change (~100 files) in BUILD rules across Google's monorepo in order to improve the dependency check used to verify that Flutter applications correctly import plugins

## **Software Engineering Intern**

January - March 2022

Мета

Remote

- Worked with the Unigraph team (Infra pillar), responsible for managing code size around Meta's products
- Rewrote an algorithm in charge of traversing and topologically sorting a 100,000-node graph using Rust, reducing its execution time from ~18s to ~750ms

#### **Software Engineering Intern**

June - August 2021

**MICROSOFT** 

Remote

- Worked on the Field Service Mobile team from the Dynamics 365 division
- Participated in the creation of a simple feature on the Field Service app, from gathering requirements and an initial design, through its implementation, documentation and testing using TypeScript and React Native
- Built an audio recording pipeline from recording an audio stream and encoding it using the Android NDK (C++)

#### **Cybersecurity Intern**

January - July 2020

GRUPO FINANCIERO BANORTE

Mexico City, Mexico

- Built and deployed a dashboard to help assess cybersecurity risks that affect the institution in a day-to-day basis
- Created several graph and hierarchy visualizations rendered with the help of React and D3.js
- Developed Python scripts to clean and transform the data from Excel spreadsheets to a variety of JSON and CSV files for easier use in the web app

## Education.

#### **B.S. Computer Science and Technology**

August 2018 - December 2022

TECNOLÓGICO DE MONTERREY

Mexico

- Graduated Magna Cum Laude, with a 97/100 GPA and an award by CENEVAL's national exam
- Relevant coursework: Analysis and Design of Algorithms, Mobile Application Development, Advanced Database Systems, Web Applications Development, Software Design and Architecture, Compiler Design

#### Ski**lls**

Languages TypeScript (proficient), Rust, C++, Java, Python

**Tools & Platforms** Mercurial, Git, Docker, GitHub Actions (CI/CD pipelines)