

# SCOTT THOMAS ANDERSEN

Mexico City, Mexico

Personal Email: Sthomasen7@gmail.com **US. Citizen**

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## EDUCATION **National Autonomous University of Mexico**

*Masters of Computer Science and Engineering - Signals, Images, and Virtual Environments*

Relevant Courses: Parallel Programming with CUDA, Deep Learning, Machine Learning, Advanced Image Processing, Computer Vision

GPA: 9.64/10.00

## **University of Michigan**

*Bachelors of Science in Computer Science and Spanish Minor*

GPA: 3.4/4.0

Relevant Courses: Database Management Systems, Data Structures and Algorithms, Foundations of Computer Science, Compiler Construction

**Mexico City, Mx**

*Completed May 2024*

**Ann Arbor, MI**

*Completed May 2021*

## EXPERIENCE **Oracle - IC3 - Senior Member of the Technical Staff - Automation Tools**

- Managed an internal automation tool for the automatic detection of code regressions.
- Created an internal tool to automatically validate detected code regressions, this tool permitted an easy confirmation that a specified change caused a test to fail and at the time of writing has saved hundreds of hours of manual labor.
- Designed a system to detect statistically anomalous behavior in automation tools and report to the corresponding team to ensure integrity and efficiency in the tools execution.

**Mexico City, Mx**

*June 2023 - Present*

## **Oracle - Intern - JDBC Test Programmer**

- Developed new projects for automating software tests for Oracle's Java Database Connectivity Library.
- Designed and implemented a test framework for JDBC with Cloud Interface, increasing the testing capacity of our existing framework.
- Proposed and carried out the implementation of a testing tool that manipulates connections between a program and a database to test driver's behavior.

**Mexico City, Mx**

*August 2022 - June 2023*

## **Language Engineering Lab (UNAM) - Part Time Researcher, Dr. Gemma Bel-Enguix**

- Collaborated on the development of natural language datasets, scraping data from the internet, performing basic statistical analysis, and performing benchmarking tasks with Deep Learning Models such as BERT, leading to the publication of three peer-reviewed scientific papers.
- Designed and developed an online annotation tool for research assistants to annotate data, permitting the development of a human annotated dataset that safely handled sensitive data of annotators and of the content they were annotating, all while rigorously curating the annotation process for the validity and integrity of the collected data.

**Mexico City, Mx**

*January 2022 - Present*

## **University of Michigan - Research Assistant - C.S. Department, Dr. Kevin Leach**

- Performed rigorous static analysis on binary code using tools such as Radare2 and Objdump to understand C code functions from a low level.
- Made use of cloud computing to train neural networks, such as YOLOV4 for image prediction on KITTI drive image dataset, and BiLSTM for automatic code summarization of over 7,000 C code fragments scraped from GitHub and Darpa's MUSE dataset.
- Designed a human study to empirically evaluate assembly code comprehension with supplemented data from our code summarization model, executed on a personally designed website using Python and HTML.

**Ann Arbor, MI**

*Aug. 2019 - Aug. 2021*

## SKILLS **Programming Languages:** Python, C++, C, Bash, Java, SQL

**Software:** OpenGL, Cuda, Git, PyTorch, Matlab, OCI, Google Cloud

**Spoken Languages:** Native English Speaker, Spanish Certified Fluent