SCOTT THOMAS ANDERSEN

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EDUCATION

National Autonomous University of Mexico — Mexico City, Mx — *August 2021 - Present*

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

Relevant Courses: Computer Architecture, Computer Vision, Algorithm Design and Analysis, Artificial Intelligence

Currently developing a master's thesis under the advisory of Dr. Edgar Garduño on the topic of rendering realistic fluid simulations using ray tracing.

University of Michigan — Ann Arbor, MI — *May 2021*

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

EXPERIENCE

University of Michigan - Research Assistant - C.S. Department, Dr. Kevin Leach — Ann Arbor, MI — *Aug. 2019 - Aug. 2021*

- 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 (Bi-directional long short term memory) 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.
- Developed a thorough analysis of research and results pending publication.

WICIR - Volunteer Emergency Phone Operator — Ann Arbor, MI — *Aug. 2019 - July 2021*

- Operated urgent hotline for undocumented community members in need of legal, financial, and community support from issues caused by their legal status.
- Worked with vulnerable people in personal and emotionally charged situations.
- Provided support in teams that contributed to a peer reviewed publication on team based support for social work.

Undergraduate Research Opportunity Program - Research Assistant - Dr. Regoli — Ann Arbor, MI — *Aug. 2018 - May 2019*

- Made use of open source code, including NASA software libraries in MATLAB to parse and analyze data on satellite positions and atmospheric data of Mars.
- Produced various informative graphical representations of data for academic presentation.
- Contributed to research on Mars' magnetosphere that is planned to be published.

Kitchen Work - Cook in Handsome Hobo Pizzeria & The Original Cottage Inn — Ann Arbor, MI — *Jan 2016 - July 2021*

- Managed team members in high stress quality-controlled tasks.
- Skilled in fast paced collaborative work environments.
- Established consistent good work ethic in spite of challenges.

SKILLS

Programming Languages: C++, C, Python, Bash, SQLite, HTML, Javascript
Software: Google Cloud, AWS, Matlab, Radare2, Quartus, YOLOV4 Object Detection, GitHub, OpenGL
Spoken Languages: Native English Speaker, Spanish Fluent