William Sigala

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Education

University of Texas at Arlington   *Arlington, TX*
BS in Computer Science. GPA: 3.5   *August 2019 - May 2023*
- **Notable Courses:** Data Mining, Artificial Intelligence, Machine Learning, Computational Methods, Computer Vision, Computer Graphics, Operating Systems, Database Systems, Software Engineering, Object Oriented Programming, Computer Network Organization

Projects & Experience

FishQuest - Fishing App   *Arlington, TX*
Department of Computer Science & Engineering at UTA   *August 2022 - May 2023*
- Developed a mobile application for fishing on both iOS and Android devices in collaboration with four other CSE students
- The app serves as a social platform for fishing hobbyist and features a missions system
- The missions system allows the user to engage with the app based off of the information provided from fish they catch
- Created a classifier that performs server-side inference on fish images that validates and provides information for the missions system and the user
- **Technical Skills:** AWS (EC2, RDS, S3, Route53), Docker, PostgreSQL, TypeScript/JavaScript (NodeJS, NestJS, TypeORM, React Native), Python (Ultralytics, NumPy, OpenCV, ONNXRuntime), Bash Shell
- **Soft Skills:** Scrum Sprint Development, Version Control, Documentation (Architectural & System Design Specifications), Team Collaboration, Leadership

Fitness and Training App   *Arlington, TX*
Department of Computer Science & Engineering at UTA   *August 2021 - December 2021*
- Worked with a team of five to create a fitness app for android.
- The app features a calendar to log information regarding user workout information and provide statistics
- **Technical Skills:** Java(Android studio)
- **Soft Skills:** Scrum Sprint Development, Version Control, Documentation

Semantic Segmentation for Autonomous Vehicles   *Arlington, TX*
Department of Computer Science & Engineering at UTA   *January 2023 - May 2023*
- Researched semantic segmentation for autonomous vehicles that utilized U-Net architecture to measure performance on real image data sets and computer-generated image data sets
- Recorded findings in an IEEE conference paper (unpublished) in collaboration with a CSE graduate student
- **Technical Skills:** Python (PyTorch, NumPy, MatPlotLib, Pandas), LaTeX(Overleaf)
- **Soft Skills:** Technical Research, Presentation skills, Report writing

Text From Image (TFI)
Independent   *June 2022 - May 2023*
- Developed an application for Linux that extracts text from an image and allows the user to modify the text in place
- Features an interface for removing, grouping, and moving text in an image
- Publisher and package maintainer for the app on the Arch User Repository (AUR)
- **Technical Skills:** C++, Qt, Tesseract OCR, OpenCV
- **Soft Skills:** Logical Skills, Package Management, Version Control

Photo Stitching
Independent   *Oct 2022 - Dec 2022*
- Created a photo stitching program that takes a set of photos and merges them together to form a complete image
- **Technical Skills:** Python (NumPy, OpenCV, MatPlotLib)
- **Soft Skills:** Logical Thinking, Critical Thinking

Skills

Programming	Python (Pandas, MatPlotLib, PyTorch, NumPy, Scikit-learn), C/C++ (OpenCV, Point Cloud Lib, Qt, Gtk), JavaScript/TypeScript (NodeJS, NestJS, ExpressJS, NextJS, React, Apollo GraphQL), SQL (PostgreSQL, MySQL), Java (Android), HTML/CSS
Miscellaneous	Linux, Shell (Bash, Fish), LaTeX(Overleaf, Markdown), Jupyter Notebook, AWS, Nginx, Docker, Redis, Git