Miles Milosevich

software engineering & neuroscience at Chapman

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kilometersvi ▪ miles-milosevich

*I have experience working with NASA data and machine learning models.
I am highly proficient in Python and C++, and am well experienced with
Keras, Tensorflow, OpenCV, GCP, and others.*

education

Software Engineering at Chapman University

B.S. in Software Engineering, Minor in Neuroscience [3.4 GPA]

Presidential Scholar, Graduation: December 2022

Monte Vista High School

4.1 GPA Weighted | Graduated with Honors

Involved in FIRST Robotics and Science Alliance

research & involvement

Autism Research [2019-21]

I implemented filters in OpenCV, to be used in a study to test the effectiveness of image processing techniques in assisting neurodivergent individuals with object-level detection. [2021]

Worked with a research team to develop optimized environments in Unity VR for children with autism. [2019]

Researcher at Chapman Brain Institute [2021-22]

Developing a VR driving simulator in Unity for use in EEG studies.

Performed data analysis on several studies, sometimes requiring techniques such as ICA, common spatial patterns, and other ML methods with EEG studies.

UI Development for Local Businesses [2019]

Worked with Chapman UX Society to develop sites for local businesses.

experience

Hydrosat | Data Science/ML Internship [2021-22]

Produced geospatial maps using NASA weather data to determine evapotranspiration, fire spread, and other reports.

Arcules | Software Engineering Internship [2020]

With a team, I developed a customer portal built in React and Node for live camera feeds, including functions like people counting.

Developed Slack app in Golang for data reporting.

SAP-Eureka | SE Internship [2019]

I developed a GCP pipeline for document analysis with a team.

leadership & volunteering

Senior Patrol Leader, Eagle Scout | Troop 803

Eagle Scout awarded for building infrastructure for local animal shelters.

Black Belt | ABK Danville (2017)

12 years training, would often instruct lower belt classes.

Mission Trip Build Leader | AMOR

Spent spring breaks in high school leading groups to build houses for underserved families in Tijuana, Mexico.

skills

Programming	Frameworks
Python3, Python2, C/C#/C++, Java, Golang, SQL, Javascript, Regex, Matlab	Keras, Tensorflow, OpenCV, Node, React, Express, PostgreSQL, Flask, Pygame, Unity, three.js

Tools	Misc
GCP, QGIS, Qdal, Kubernetes, Docker, REST APIs, Postman, Jupyter Notebook, Jenkins, Wireshark	Open source prototyping, Arduino & Raspberry Pi, Linux

references available upon request