

MARLON TRIFUNOVIC

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EDUCATION

University of California, Los Angeles
Bachelor in Mathematics of Computation

September 2016 - Present
GPA: 3.629

University of California, Los Angeles
Master in Mathematics

September 2016 - Present
GPA: 3.629

TECHNICAL STRENGTHS

Languages: Python, C++, C, Java, Bash, Fortran, WebGL, Javascript
Tools: Docker, Jenkins, Kafka, Blender, Unreal Engine
Math: Multivariable calculus, differential equations, linear algebra, discrete structures
Programming: Graphics, biomodeling, simulations, quantum computing

WORK EXPERIENCE

MITRE

June 2019 - Present

Systems Engineer Intern

- Built a full stack application for propagating orbits defined by TLE, involving a user interface, REST service architecture, API wrappers and C++/C drivers for Astrodynamical Standards software.
- Created CI/CD pipeline for above that involved Docker containers running services such as Jenkins, Fortify, Clang, CLOC, SoapUI, SonarQube and unit tests to harden and analyze source code.
- Set up multi node Kafka clusters, gathered performance metrics on Kafka Streams Processing for many different configurations
- Simulating infrared satellite data, then image processing and tracking targets on this complex background
- Built 3D visualizations for terahertz sensor data

Huntington Beach Family Medicine

June 2018 - Sept 2018

Network Administrator

- Set up and maintained network of about 10 computers, 15 printers, and other hardware
- Created and scheduled scripts that would help users on network conform to HIPAA standards
- Installed OS on each computer and connected associated hardware through ethernet to avoid potential data leaks

SELF EXPERIENCE

4 years of self-taught python projects, including social media bots, 3D graphic engines, various physics simulations, machine learning, image processors, and navigation software

6 years of self-taught 3D modeling and rendering - Check my website(marlontri.github.io)!

MISC

Academics: American Chemical Societys Orange County 2014 Highest Honors Award, UCLA Deans Honors list for 4 quarters

Associations: American Chemical Society, Information Systems Security Association

Interests: Cooking, Coding, Basketball!