Oscar Gandara

Denver, CO • (720) 398-1130 • ogandara99@gmail.com • linkedin.com/in/oscarmiguelgandara

Programming Languages and Technologies

Languages: *Python, Java, C#, Javascript, C++, Bash*
Cloud: *AWS (ECS, Lambda, Dynamo, S3, etc), Azure (Events, Storage, Function), IaC (Terraform)*
Frameworks and Tools: *Git, Linux, Docker, CI/CD (Jenkins), Flask, Node.Js, React, MongoDB, MySQL, Agile, Datadog*

Experience

Trimble

Worked in the cloud services department which handles data storage, authorization and data processing. The work flow is a event driven distributed systems architecture.

Software Engineer   *06/2022 - Current*

- *Addressed production bugs and regular improvements to existing API and Python/Javascript microservices hosted on cloud services.*
- *Designed cloud microservices from user requirements and implemented the code and infrastructure required throughout the software development life cycle.*
- *Mentored interns and guided them through codebase and software production.*

Software Engineer Intern   *02/2022 - 06/2022*

- *Updated code and Docker images to improve the malware scanning process to include larger datasets.*
- *Created new infrastructure on AWS to process large zip files - increasing the overall archiving service productivity by 9% (messages per second).*
- *Refactored code for the Trimble Event Notification Service to process 10x more messages per batch.*

University of Colorado Boulder, Remote - Researcher   *10/2021 - 10/2022*

Conducted research by detecting El Nino Southern Oscillation behavior in a supercomputer climate model of the Earth.

- *Created algorithms to calculate data correlations and regressions throughout time periods.*
- *Execute large computations on CU's Supercomputer (Linux based).*
- *Wrote scientific paper and presented our findings to scientific conventions.*

CU Boulder ATOC REU, Remote - Data Science and Research Intern   *05/2021 - 08/2021*

Completed summer program which leads interns through the scientific research process. Collaborated with a Professor and grad school mentor to work on a research topic.

Projects

Notes

Built serverless application that sends user created messages to numbers at a specified time and with specified frequency.

- **Tech: Python, AWS Lambda, MySql, AWS RDS**

Physics Library

Built then refactored, then optimized scientific algorithms to combine them into an object oriented code base. Created to numerically and graphically solve a variety of physics problems such as projectile motion, ODE and more.

- **Tech: C++, Python.**

Education

University of Colorado Boulder   *08/2014 - 08/2018*
Bachelor of Arts - Computer Science and Mathematics