Daniel Lopez

Full stack Software and DevOps/Release Engineer



EDUCATION

University of Nevada, Reno

Masters of Computer Science

Class of 2018



Reno, NV

Thesis: Evolving GPU Accelerated Capsule Networks
Focuses included: Multi CPU/GPU programming, Graphics Engines,
Neural Network Architecture, Capsule Network Optimization

Bachelors of Computer Science and Engineering

Minor in Mathematics

2x T.A. in Graphics Engine Implementation Courses Class of 2017

Reno, NV

SkyHive

Unleashing Human Potential

WORK EXPERIENCE

SkyHive Al

Senior DevOps Engineer

Workforce Intelligence and Reskilling Start Up 08/2021 - Present

Toronto, Ontario, Canada

- Architected a robust alerting system to dynamically create and funnel all CloudWatch, MongoDB alerts to 3rd party services
- Developed an extensible DevOps CLI specific to the ecosystem

Contact: Charles Marker - charles@skyhive.io



NoCap Shows

Software Engineer

Online Concert Streaming Services Start Up 08/2021 - Present

Malibu, CA

- Standardized deployments and release engineering across full stack using Github Actions and GCP
- Fast paced iterative development on video streaming website and internal tools
- Stood up and maintained new APIs that scales and adapts to unstandardized data
- Occasional TikTok Promoter

Contact: Josh Smallman - is@nocapshows.com

ıntuıt

Intuit

Software Engineer 2

Turbo Tax, Consumer Group 01/2020 - 07/2021 San Diego, CA

- Gained extensive experience in setting up Jenkins pipelines and developing Jenkins plugins
- Templatized Dockerfiles and other deployment files for ease of generation
- Led project aimed at enhancing developer Git hooks for automated task progress management

Contact: Kathiravan Tamilvanan - <u>kathiravan_tamilvanan@intuit.com</u>

Software Engineer 1

Turbo Tax, Consumer Group 08/2018 - 01/2020

San Diego, CA

- Worked on internal tools team for proprietary language support.
- Enhanced automation for generation of back-end microservices and UI projects.
- Developing Dev Productivity Tools including customized Git hooks and artifact deployment.

SKILLS Highly Competent Java + Springboot Node.js + React Python + Flask **Github Actions Jenkins** Dev Ops Docker **Violinist Pianist GCP AWS** Elasticsearch/Kibana Open GL **CUDA** MPI **Orchestral Composition** Blender 3D Modeling/Texturing **Voice Acting**

PUBLICATIONS

Avaler's Adventure (2017)

Therapeutic Game for Speech Pathology Dept. at University of Nevada, Reno

Catherine R. Pollock, Daniel A. Lopez, et al. (2017) "Avaler's Adventure: An Open Source Game for Dysphagia Therapy", Proceedings of the ISCA 26th International Conference on Software Engineering and Data Engineering (SEDE 2017)

Capsule Network Optimization (2018-2019)

Paper derived from Thesis work; building Capsule Networks in raw CUDA

Lopez, D. A., Wu, R., Barford, L., & Harris, F.C. (2019) A Memory Layout for Dynamically Routed Capsule Layers. In 16th Iternational Conference on Information Technology New Generations (ITNG 2019) (pp. 317-324)

Today I Will Fly (2020)

Original Composition for a YouTube Original

Daniel Lopez, Orchestral Score. "Create Together #WithMe", YouTube Originals, HitRecord series, S1 E4, "Today I Will Fly" (Cold Open)

LANGUAGES AND EXPERIENCES

| | JS/TS | |
|--------|--------|--|
| PANISH | Java | |
| | | |
| | C++ | |
| | Golang | |

Daniel Lopez

Full stack Software and DevOps/Release Engineer

I type for a living.



daniellopez@nevada.unr.edu



tennisgazelle.com



(775)-376-2407



github.com/TennisGazelle

WORK EXPERIENCE

Software Engineer NoCap Shows

08/2021 - Present

Malibu, CA

Online Concert Streaming Services

- Standardized deployments and release engineering across stack using Github Actions and GCP
- Full stack, fast paced iterative development on video streaming website and internal tools

Contact: Josh Porter - josh@nocapshows.com

Software Engineer 2

Intuit - Turbo Tax

01/2020 - 07/2021

San Diego, CA

- Gained extensive experience in setting up Jenkins pipelines and developing Jenkins plugins
- Templatized Dockerfiles and other deployment files for ease of generation
- Led project aimed at enhancing developer Git hooks for automated task progress management

Contact: Eric Sun and Kathiravan Tamilvanan - kathiravan_tamilvanan@intuit.com

Software Engineer 1 Intuit - Turbo Tax

08/2018 - 01/2020

San Diego, CA

- Worked on internal tools team for proprietary language support.
- Enhanced automation for generation of back-end microservices and UI projects.
- Developing Dev Productivity Tools including customized Git hooks and artifact deployment.

Contact: Anant Saxena and Jason Polk - anant_saxena@intuit.com

Software Engineering and DevOps Intern

Intuit - Turbo Tax

05/2017 - 08/2017

San Diego, CA

- Gained troubleshooting mindset to be able to tackle problems in unfamiliar languages/environments.
- Exposed to new tech: React+Redux, Java with Springboot.
- Worked in an Agile Scrum Environment with periodic mob programming.

Contact: Jason Polk - jason_polk@intuit.com

Software Engineering Intern

Intuit - Quickbooks

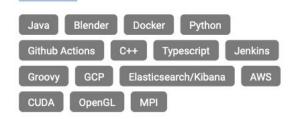
06/2016 - 08/2016

Reno, NV

- Monitored REST endpoint and batch job performance metrics with New Relic APM.
- Gained practical experience with Groovy on Grails and Hibernate Database Queries.
- Established proficiency with basic dev tools (Git, Bash, Jira, Jenkins)

Contact: Madhu Midha - madhu_midha@intuit.com

SKILLS



PUBLICATIONS

Avaler's Adventure (2017)

Catherine R. Pollock, Daniel A. Lopez, et al. (2017) "Avaler's Adventure: an Open Source Game for Dysphagia Therapy", Proceedings of the ISCA 26th International Conference on Software Engineering and Data Engineering (SEDE 2017)

Capsule Network Optimization (2018-2019)

Lopez, D. A., Wu, R., Barford, L., & Harris, F. C. (2019). A Memory Layout for Dynamically Routed Capsule Layers. In 16th International Conference on Information Technology-New Generations (ITNG 2019) (pp. 317-324). Springer, Cham.

Score for "Today I will Fly" (Short) (06/2020)

Daniel Lopez. "Create Together #WithMe." YouTube Originals, Hit Record, 8

LANGUAGES AND EXPERIENCE

| English | • | • | | • | | |
|------------|---|---|---|---|---|--|
| Spanish | | • | | • | | |
| French | | | | 0 | 0 | |
| C++ | | • | | • | 0 | |
| Java | | | | • | | |
| Python | | • | | • | 0 | |
| Golang | | 0 | 0 | 0 | 0 | |
| Typescript | • | • | | 0 | 0 | |

INTERESTS

Orchestral Composition Violinist Pianist

Video and Film Production 3D Modeling

Voice Acting