Daniel Lopez

Full stack Software and DevOps/Release Engineer

✉ daniellopez@nevada.unr.edu
🌐 tennisgazelle.com
📱 (775)-376-2407
⌗ github.com/TennisGazelle

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*

WORK EXPERIENCE

SkyHive AI
Senior DevOps Engineer
Workforce Intelligence and Reskilling Start Up   *Toronto, Ontario, Canada*
08/2021 - Present

- 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   *Malibu, CA*
08/2021 - Present

- 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 - js@nocapshows.com

Intuit
Software Engineer 2
Turbo Tax, Consumer Group   *San Diego, CA*
01/2020 - 07/2021

- 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 - kathiravan_tamilvanan@intuit.com

Software Engineer 1
Turbo Tax, Consumer Group   *San Diego, CA*
08/2018 - 01/2020

- 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: Kathiravan Tamilvanan - kathiravan_tamilvanan@intuit.com

SKILLS

| Professional | Highly Competent |

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

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

Language	Level		Language	Level
ENGLISH	■■■■■■■■■■		JS/TS	■■■■■■■■□□
SPANISH	■■■■■■■■■■		Java	■■■■■■■■□□
FRENCH	■■■■□□□□□□		Python	■■■■■■□□□□
			C++	■■■■■■■□□□
			Golang	■■■□□□□□□□

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I type for a living.

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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

Java Blender Docker Python
Github Actions C++ Typescript Jenkins
Groovy GCP Elasticsearch/Kibana AWS
CUDA OpenGL MPI

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 June 2020.

LANGUAGES AND EXPERIENCE

Language	Level
English	●●●●●
Spanish	●●●●●
French	●●●○○
C++	●●●●○
Java	●●●●●
Python	●●●●○
Golang	●○○○○
Typescript	●●●○○

INTERESTS

Orchestral Composition Violinist Pianist
Video and Film Production 3D Modeling
Voice Acting