

Eliseo Nathaniel Ruiz Nowell

AWS SDE | 3+ Years Experience | Computer Engineering Graduate | University of Waterloo

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LINKS

PORTFOLIO:

<https://ece.uwaterloo.ca/~enruizno/>

GITHUB:

<https://github.com/NathanielRN>

LINKEDIN:

<https://www.linkedin.com/in/nathanielruiz/>

SKILLS

PROGRAMMING

Python • Java • JavaScript • Rust • C# • C/C++ • Swift • Ruby

TECHNOLOGIES

git • AWS • MySQL • Linux • node.js • jupyter • HTML5 • CSS • XML • MatLab

FRAMEWORKS

numpy • PyTorch • TensorFlow • iOS • wpf • Android • Mocha

LANGUAGES

Spanish (Fluent) • French (Fluent) • Mandarin Chinese (Intermediate)

TECHNICAL

AWS Cloud Practitioner Certificate • Level 9 RCM Piano Practical Exam with Honours • RCM Advanced Rudiments Theory

INTERESTS

Half Marathon Runner • Chinese Calligraphy • Pilates • Tutoring

VOLUNTEER

Church App Developer • Worship Team Piano Player • ECE Mentor

EDUCATION

UNIVERSITY OF WATERLOO

B.A.Sc. in Computer Engineering w/ Option in **Artificial Intelligence** Completed June 2021 • CGPA 90%

EXPERIENCE

Amazon AWS X-Ray | SDE 1

June '21 – Present

Python, bash, Java, AWS, JavaScript, Docker, GitHub Actions, Ruby, Go, YAML

- › Modularized 6-hour [performance tests using docker containers](#) used in 6 OSS repos
- › Reworked release CI to support ARM architecture [for popular Otel Lambda Layers](#)
- › Wrote [technical posts](#) and design docs teaching users advanced tracing concepts
- › [Merged fixes in OSS library](#) to solve issue in team CI thereby reducing code debt
- › Commended by clients and team for meticulous handling of on-call responsibilities

Amazon | SOFTWARE ENGINEER INTERN

September '20 – December '20

Python, OpenTelemetry (OTel), Java, Go, AWS, X-Ray, Docker, GitHub Actions, YAML, bash

- › Split OTel Python project into Core/Contrib repositories [over 90+ pull requests](#)
- › Released Python package to [make OTel SDK traces compatible](#) with AWS X-Ray
- › Leveraged Docker to [create Sample Apps](#) showcasing Otel and AWS compatibility
- › [Incorporated automated benchmarking](#) tests to OTel Python GitHub Actions workflow
- › Presented POCs to OTel Python SIG stakeholders and internally to Amazon engineers

Newfront Insurance | FULL STACK INTERN

September '19 – December '19

Typescript, node.js, Heroku, Datadog, Postgres, Salesforce SQL, CricleCI, React

- › Added Auth-N/Auth-Z for all endpoints coupled with redesigned Integration Tests
- › Owned FrontEnd changes using React and node.js to improve Backend performance
- › Ran Salesforce and Postgres SQL queries to quickly repair data integrity issues
- › Learned about Cookie Security quickly to enable SSL validation on all website traffic
- › Built Datadog Metrics Dashboard using tagging to pinpoint node website bottleneck

PROJECTS

Computer Vision Senior Course | A+ FINAL GRADE

January '21 – April '21

Python, NumPy, Jupiter notebooks, Conda, PyTorch, TensorFlow

- › Completed [5 Grad School Level Assignments + 1 Final Project](#) with 100% in each
- › Utilized NumPy and Linear Algebra experience to vectorize slow matrix calculations
- › Stitched images with projection transforms and gradient blending to build panoramas
- › Isolated main & background content using image segmentation graph cut techniques
- › Built depth perception pixel map using image stereo algo on 2 slightly shifted images
- › Combined lessons independently to build lane detection for car dash-cam vid stream

AI Engineering Option | UNIVERSITY OF WATERLOO

May '20 – April '21

5 Engineering Faculty ML Courses, 1 Math Faculty ML Course, 1 Social Impact ML Course

- › Overloaded term with additional AI courses to complete degree option with 93% avg
- › Designed sequential CNN to build encode/decode computer vision image pipelines
- › Leveraged Tensorflow APIs to build NNs with ReLU, sigmoid, etc activation functions
- › Programmed NVIDIA GPU to parallelize numerous CNN computations using CUDA C
- › Achieved best reward in reinforcement learning contest using exploring/exploitation

Machine Learning by Andrew Ng | COURSERA

September '19 – Dec '19

Python, Conda, jupyter notebooks, NumPy, MatLab, Scipy, Coursera

- › Finished 8 Python Assignments in Stanford online ML course with 55M+ Learners
- › Spent 60+ hours developing algorithms to iteratively improve accuracy using Scipy
- › Implemented Logistic Regression, K-means clustering, and Debugging best practices
- › Employed Neural Network Feed Forward/Backwards Propagation to classify images