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 • Image Sensors • Camera • Circuits • DFS algorithms • Recursion w/ Memoization

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
› Developed multi-threaded long-running performance tests 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
› Leveraged BFS algorithm to find path between broker and policy in connected graph

PROJECTS

Computer Vision Senior Course | A+ FINAL GRADE   January '21 – April '21
Python, NumPy, Jupiter notebooks, Conda, PyTorch, TensorFlow, OpenCV
› 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 **OpenCV** to achieve gradient blending and build panoramas
› Isolated main & horizon content with **ML** image processing segmentation techniques
› Built depth perception pixel map using **OpenCV** stereo image processing algorithm
› Combined **Tensorflow** lessons to build lane detection on 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
› Practiced creating end-to-end **deep learning** models in Reinforcement Learning class

Machine Learning by Andrew Ng | COURSERA   September '19 – Dec '19
Python, Conda, jupyter notebooks, NumPy, MatLab, Scipy, Coursera
› Implemented **Logistic Regression**, **K-means** clustering, and Graph Cut algorithms
› Applied image **data augmentation** to create Training, Validation, & Test data sets
› Spent 60+ hours developing algorithms to iteratively improve accuracy using **Scipy**
› Employed Neural Network **Feed Forward/Backwards Propagation** to classify images