

Lucas A. Estrada

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EDUCATION	Williams College <i>Bachelor of Arts in Geoscience and Computer Science</i> Varsity Cross Country and Track Dean's List 2019 Middlesex School Science Department Prize in Environmental Science	2015-December 2019 2011-2015
RELEVANT EXPERIENCE	Software Engineer , Nevo Technologies <ul style="list-style-type: none">• Worked as part of a high velocity agile development team on a wide variety of projects• Gained experience in web/mobile app development and AWS ecosystem• Quickly adapted to new technologies, stacks, and development environments• Implemented ETL processes for high volume data processing project Research Intern , Incorporated Research Institutions for Seismology Supervised by Dr. Kasey Aderhold <ul style="list-style-type: none">• Conducted novel seismic research studying Alaskan Sea Ice modulations of seismic noise• Performed statistical analyses of seismic data in Matlab and Python• Presented research at American Geophysical Union conference 2019• Wrote scripts that pull data in real time directly from Alaskan Transportable Arrays api Research Assistant , Cohen Lab - Williams College Supervised by Dr. Phoebe Cohen <ul style="list-style-type: none">• Studied the microfossil and mercury content of Devonian Shales to investigate the End-Devonian mass extinction• Prepared samples for analysis and recorded detailed notes of results and procedures• Presented research at the Geological Society of America's 2018 Conference in Indianapolis• Wrote Python scripts to analyze datasets from the Macrostrat and Paleobio Database API Crew , Appalachian Mountain Club Cold River Camp - Chatham, NH <ul style="list-style-type: none">• Lived and worked with colleagues in a team-oriented, fast-paced environment• Maintained all buildings and grounds; Served on waitstaff and ensured guest satisfaction Intern , Weston Geophysical – Lexington, MA <ul style="list-style-type: none">• Analyzed global seismic activity using company software in a Linux environment• Setup and Prepared equipment for offsite seismic studies	2020-present Summer 2019 Summer 2018 Summer 2017 Summer 2015
TECHNICAL SKILLS	Programming Python, Java, TypeScript, C/C#/C++, Matlab, SQL/PSQL, Docker, AWS, Terraform, Linux, Object Oriented Programming, Unit Testing, Debugging, Version Control (Git), Bitbucket Pipelines, SQL/PSQL Frameworks Angular, .NET Core, React Native, Xamarin Forms Software ArcGIS, InDesign, Microsoft Suite	
SERVICE AND LEADERSHIP	Purple Bike Coalition President, Treasurer, Mechanic <ul style="list-style-type: none">• Manage shop budget, train and hire mechanics, organize work schedules Teaching Assistant - Geoscience 101 , Williams College <ul style="list-style-type: none">• Assist 30+ students in labs and answer questions related to lectures and course materials• Review and grade student labs	2016-2019 2019

- Organize team events, promote positive culture, communicate with coaches

PROJECTS AND RESEARCH	Acushnet Artworks	2021
	Worked as part of a small development team to implement a logo management web application for the Acushnet Holdings Corporation. This project utilized Angular for the front end application and .NET Core for the backend. This project was deployed and run with an entirely serverless footprint using AWS ECS to run a dockerized version of the application. I was heavily involved in standing up the necessary devOps infrastructure and coding both the client-side and server-side applications	
	IHM Insights	2020
	Developed a high volume, cloud-based medical data ingest and egress system for the Institute for Health Metrics. I worked as one the sole contributors handling the ingestion and transformation of EHR data from over 50 hospitals into our canonical persistence store on the cloud. This project involved leveraging a wide variety of AWS services including AWS Glue (Pyspark), Lambda, Step Functions, RDS Aurora, ECS, etc.	
	J&J J Labs Navigator	2020
	Developed a web application for Johnson & Johnson's incubator program (JLABS). Worked on the client-side application to replace their legacy Drupal application with a new Angular version that provides richer interactions and visualizations.	
	Seismic Data Tools	2019
	Programmed tools in Matlab and Python to fetch and analyze seismic noise from IRIS data center	
	Paleontology Scripting Analysis	Summer 2018
	Wrote Python scripts to interact and analyze data from Macrostrat and the Paleobio Database API's	
	Roguelike Game Development	Winter 2017
	Implemented and developed JavaScript rogue-like video game	
	<i>Characterizing Sea Ice Modulations of Seismic Noise using the Alaskan Transportable Array</i> Publication in Submission; https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/507588	
	<i>Mercury and Microfossil Trends During End-Devonian Extinction Events</i> Publication pending; https://www.researchgate.net/scientific-contributions/Lucas-Estrada-2150491930	