

NESTOR A. BERMUDEZ

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Math athlete turned software developer; problem solver with over 13 years of professional experience in the tech industry with a proven track record of successfully delivering results in fast paced companies. Passionate about challenges and delivering with quality. Strong communication skills, both verbal and written.

WORK EXPERIENCE

08. 2025 – PRESENT

SEDONA.AI – REMOTE **Senior Software Engineer II**

- Improved video pipeline: increased video quality, added face identification, and VLM-powered video captions

05. 2024 – 08. 2025

GATHER.TOWN – REMOTE **Senior Software Engineer II**

- Architected and lead the initiative to bring AI-powered meeting summaries to Gather, one pipeline for post-meeting, and one for live transcriptions.
- Designed and implemented advanced deployments for stateful services owning both backend and infrastructure for the project.

05. 2020 – 05.2024

HOPIN.COM – REMOTE **Staff Software Engineer - Streamable**

- Architected solution to improve our billing and packaging system; allowing us to perform pricing experiments to increase revenue.
- Spiked and lead the implementation of video-specific privacy settings.
- Conducted 41 cultural fit and 15 coding challenge interviews.
- Mentored senior software engineers within our team.
- Created a new service deployment using Terraform and ArgoCD.
- Tech stack: NodeJS, Python, React.js, Terraform, AWS

02. 2022 – 11. 2022

Staff Software Engineer - Video Platform

- Implemented ability to extract thumbnails from video and allow custom thumbnail uploads.
- Designed and implemented data segregation measures for user recordings.
- Served as developer advocate to new Hopin products wanting to use our Video Platform services.
- Saved the company ~\$800k/year by changing our primary video providers and cleaning up recording data.
- Tech stack: NodeJS, Kubernetes, Terraform, ffmpeg.

05. 2021 – 02.2022

Staff Software Engineer - Hopin Events

- Led design and implementation for real-time captions solution for Hopin Stages.
- Helped design of a Media Transformation Service now used across multiple products within Hopin to process recordings.
- Created runbooks and onboarding material for new engineers.
- Tech stack: Ruby on Rails, React.js, NodeJS.

05. 2020 – 04.2021

Senior Software Engineer

- Designed and implemented Multiple Stages, integrations with YouTube, Miro, Mux, AWS IVS, THEOplayer.
- Designed and implemented the company's approach for data localization to comply with storage requirements in DACH.
- Conducted ~30 interviews for software engineering roles.
- Tech stack: Ruby on Rails, React.js.

04. 2022 – 12. 2023

CATALATE (SPOTLIO) – REMOTE
Senior Software Engineer

- Architected and carried integration with Adyen to bring TWINT to Swiss partners and prevent their churning.
- Designed and implemented integration with SensibleWeather as an additional source of revenue.
- Led effort to support additional payment methods and their implications on processing fee costs.
- Tech stack: Ruby on Rails, Stripe, Adyen, Sidekiq.

12. 2021 – 03. 2022

MERIWETHER GODSEY – CHARLOTTESVILLE, CA
Senior Software Engineer (through AgilityFeat)

- Created green-field mobile application targeting both iOS and Android devices.
- Setup automation for building and published preview versions of the apps for stakeholder review and app submission, as well as automated tests using react-testing-library.
- Tech stack: react-native, CircleCI.

09. 2020 – 11. 2021

HEALTHBRIDGE – CHARLOTTESVILLE, CA
Senior Frontend Engineer (through AgilityFeat)

- Created green-field web application for caregivers to capture and follow up on patient's data.
- Occasionally work along with other backend engineers to write new endpoints (served via GraphQL) and automated tests using rspec.
- Tech stack: Ruby on Rails, React.js.

09. 2019 – 09. 2020

TEACHSTONE – CHARLOTTESVILLE, VA
Senior Frontend Engineer (through AgilityFeat)

- Created print-ready automatic reports using Prawn.
- Worked with the design team and other FE engineers to create a new UI for administrators to manage coaches.
- Tech stack: Ruby on Rails, React.js.

06. 2018 – 09. 2019

FIREFLY – SAN FRANCISCO, CA
Research Scientist

- Evaluated the viability of existing Computer Vision models to run on edge with hardware constraints to detect people and vehicles in a completely dynamic scenario.
- Built automated pipelines using GCP to ingest and process data from partners and report campaign performance metrics to clients.
- Performed hypothesis testing to confirm the statistical significance of results reported by our data/study partners.
- Tech stack: GCP, Python, Nodejs.

06. 2018 – 08. 2018

Data Scientist Intern

- Designed and implemented a deep learning model combining seq2seq and forecasting tools to predict next time steps of a time series input for supply forecasting.

- Mentored a Junior Intern in how to read academic papers and implement parts of them into our system.
- Tech stack: GCP, Python, Tensorflow, R, React.js, Mapbox.

04. 2014 - 09. 2017

AGILITYFEAT — CROZET, VA (REMOTE)
Senior Software Engineer

- Delivered the first prototype of [Usabili.me](#). Tech stack: Ruby, React.js, Heroku.
- Developed what is now [TokBox Interactive Broadcasting](#). Tech stack: Node.js, React.js, AWS, micro-services.
- Designed and developed [MedZed](#) PACT Video. Tech stack: Node.js, React.js, Ruby on Rails.

04. 2016 – 09. 2017

SYMPHONY COMM. SERVICES – CA (REMOTE + TRAVEL)
WebRTC Front-end Senior Contractor (through Agilityfeat)

- Designed and developed the first real-time communication features (audio/video/screen share) for Symphony's messaging app.
- Supervised and trained interns assigned to the Collaboration team in real-time comms and software development best practices.
- Tech stack: React.js, Node.js, WebRTC, Python.

09.2014 – 03.2016

MYFINANCIALANSWERS, NJ (REMOTE)
Software Engineer Contractor (through Agilityfeat)

- Implemented a rule-based financial tool to provide advise to users. Oversaw and took part of the development and deployment of the product.
- Tech stack: Ruby on Rails, React.js, AWS, micro-services.

09.2013 – 03.2014

LEITZ GROUP, HONDURAS
Software Developer

- Led a team of developers to build an orchestration system for British American Tobacco Caribbean & Central America division to create and manage operations tasks.
- Tech stack: Java, Spring Framework.

EDUCATION

09.2017 – 07.2019

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN
Master in Computer Science

- Adviser: Prof. Sheldon H. Jacobson
- Relevant coursework: Data Mining, Machine Learning, ML in Computational Biology, Stochastic Processes
- GPA: 3.86/4.0

01.2010 – 07.2014

UNITEC
BS in COMPUTER SYSTEMS ENGINEERING

- GPA: 4.0/4.0 (98.0/100). Summa Cum Laude, Valedictorian
- Relevant coursework: data structures, algorithms, software engineering practices, operating systems and compilers.

OTHER PROJECTS

2012: Admin app for Teleton Honduras; CargoBot clone using Python.
2013: Bomberman implementation using Python; File System implementation for Arduino.
2014: WYSIWYG app for FPGA programming using Verilog.
2015: Resource management app for Honduras stake of The Church of Jesus Christ of Latter-day.
2016: Custom build of WebRTC for Google Glass; Apple Watch app for atrial fibrillation detection.
2017: Various simple ML tasks: image denoising, pong reinforcement learning, digit classification, Flow solver, word embeddings.
2018: Gene function prediction using Graph Convolution Networks and gene homology.
2019: Statistical analysis of ranking systems used in college basketball.

AWARDS AND HONORS

2018: Selected to attend Fulbright Enrichment Seminar: Big Data for the Public Good
2017-2019: Fulbright Fellowship for Graduate studies - \$100k.
2017: Member of the Fall 2017 escort of Global Leaders Orange and Blue Engagement.
2016: Speaker at WebRTC Meetup - Argentina
2016: Cisco and VoxImplant prize at Global TADHack - NYC - \$1k
2015: Telestax prize, TADHack mini - Chicago - \$1k
2014: Coordinator, 29th Ibero-American Math Olympiad - Honduras
2013: 1st place, UNITEC Math Olympiad - Honduras
2012: 1st place, UNITEC Engineering Fair - Honduras
2010: BCH-UNITEC Scholarship for undergrad studies - \$15k.
2009: 50th International Math Olympiad - Germany.
2009: Honorable Mention, 24th Ibero-American Math Olympiad - Mexico
2009: Gold Medal, 6th Honduran Math Olympiad
2008: 2nd place by teams, 23rd Ibero-American Math Olympiad - Brazil
2007: 9th Central-American Math Olympiad - Venezuela