Luis Fernando Valenzuela Peinado

EDUCATION	**Mathematical Engineering** (*Ingeniería Matemática*)	2014

Instituto Politécnico Nacional (IPN)
(National Polytechnic Institute)
Escuela Superior de Física y Matemáticas (ESFM)

COMPUTER SKILLS

Languages & Software: Python, Django, Node/JavaScript, C++, JavaScript, Matlab, Octave, R, SQL, Firebase, Mathematica, Git, LaTeX, Excel, Word, AWS.

EXPERIENCE

Zapier
Jun 2022 - Aug 2023

- Developed backend solutions using Node and Python, including the Django framework using AWS services for scalable cloud infrastructure.
- Integrated a wide array of APIs, enhancing application connectivity and functionality.
- AWS was used for infrastructure.

The Sip Club
Jan 2022 - Present

- Engineered both frontend and backend systems using JavaScript and TypeScript, leveraging technologies such as Builder.io, Plasmic, Vercel, GitHub, NX, and Redis to improve service integration and scalability.
- Implemented a dynamic shopping cart system, utilizing planetscaleDB for database management, which increased user engagement and sales.

NetProtect
Feb 2020 - Jan 2022

- Led the development of frontend and backend systems for VPN services using Django, enhancing user experience and security using AWS for infrastructure

FunnelAI
Jun 2019 - Feb 2020

- Created analytics dashboard using React.
- Transitioned from Spring MVC / Grails to Gatsby (React), and Graphene (Python and GraphQL) as well as using AWS Cognito for secure authentication, elastic load balancer, elastic beanstalk, and route53.

Viridis Learning
May 2019

- Assisted in debugging and development in both an Angular (frontend) and Node (backend) for the Viridis learning platform, utilizing Python for data processing and analysis.

Suscribe.la
Nov 2018

- This is a side project of mine where I emphasize the usage of serverless technologies, as well as unifying everything in a UX based on Gatsby, which in

turn is based on React.

eTailligence   Jul 2018 - Oct 2018

- Developed a system of scrapers for website data collection; the foundations of the Vue.js UX and standardized frontend and backend development workflows using Docker. Used Django for the backend.
- Used Google Cloud Platform for infrastructure.

clinicamia | Quody   2017

- Explored DENUE's (public business statistics) data to estimate potential market size for a health-related SaaS.
- I created a system to measure conversions in a massive email campaign.
- I designed a prototype of clinicamia
- I managed and collaborated in the creation of Clinicamia's MVP (Scrum Master).
- I used Trello, Node.js, Angular.js, Firebase, Python, Twilio, SendGrid, planning poker, Slack (and some bots).

Programmer, Data Analyst   June 2015 - April 2017
AVirtual.mx | Quody
- I developed and upgraded AVirtual.mx infrastructure and systems using PHP, Python, JavaScript, Bootstrap, MySQL, Bash, AWS, Mailchimp.

Quody   March - June 2016

- Created parties and candidate preferences reports (mentions and basic sentiment analysis mainly).
- I used Mention, Google Docs.

JustLegal   April - Oct 2017

- Developed and maintained applications using Django, Django REST framework, and Wagtail within Docker containers, significantly improving deployment processes and application reliability.
- Automated data gathering and processing tasks with Python, enhancing operational efficiency and data accuracy.
- Used AWS services for scalable cloud infrastructure, including EC2, S3, and ELB and route53.

Head of Department, Programmer, Data Analyst   June 2015 - March 2017
Secretariat of Government Innovation of the Government of Sinaloa State
- Data analysis of a temporary and recurrent call center for government processes in rural, remote places.
- Created a site to promote technology education in poor and remote places.
- Created visualizations using INEGI's and INE's geometries to generate stratified surveys to a specified level (block, urban/rural ageb, city, etc). For this, I used Google Maps (and its APIs), MySQL, Excel, Shpescape, Google Fusion Tables, etc.
- I used R statistical language to analyze INEGI's ïntercensal"data to model Sinaloa subpopulations' preferences.

- I created a system to create surveys. It used INEGI's intercensal data and it enriched it with the collected data.
- I used PHP, Python, JavaScript, MySQL, Bash, Excel/Google Spreadsheets, Pandas, AWS, GCE, Bitbucket, Git.

Programmer
Jan - June 2015
4ward Technologies
- Developed application components for monitoring cattle and administering online exams, utilizing Python and JavaScript for backend and frontend development.
- Employed Angular.js for dynamic web applications and MongoDB for data management, enhancing operational efficiency and user experience.

Mathematics Research Assistant
2014
Mathematics Department, Escuela Superior de Física y Matemáticas (ESFM)
- Comparative analysis of stochastic evolutionary methods for real-valued function optimization.
- I used Octave, MATLAB & LaTeX, scientific research, parallel computing, statistics, evolutionary algorithms.

MustacheCloud
2013

- I unified and centralized excel data of a client using Google spreadsheets and Google Apps Script.
- I automated the saving process of certain tickets and documentation in the client's emailing system using Google Scripts and Google Drive.
- I used Google Apps Script, Google Spreadsheets, JavaScript, PHP & Python.

VOLUNTARY SERVICES
- I was a jury in NASA's Space Apps Challenge in Sinaloa.
- I helped applying and checking exams at Pierre Fermat contest (a national-level math contest in México) 3 times.
- I trained a small group of students for the OMI (Mexican Olympics in Informatics) 2008. One of them won a bronze medal that year.

OTHER ACTIVITIES AND SIDE PROJECTS
- Completed courses in Machine Learning from Stanford University and Data Science from Johns Hopkins University at Coursera. More info can be found on my LinkedIn profile.
- I enjoy programming simulations of stochastic processes and simulation in general.
- Participated in the nationals of the Olympics in informatics in México during high school.
- I speak English fluently and understand French at an intermediate level, though I do not speak it fluently.
- Developed playeras de memes: A t-shirt store for me to experiment with several technologies and e-commerce.
- Created chamba remota: A platform where I help other people identify remote jobs.
- Established bulletninja.com: A personal blog, and a place for me to experiment with new ideas.