



## Bernardo Mondragón Brozon

Actuary & Full-stack Developer

### Details

Mexico City, Mexico

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NATIONALITY Mexican

DATE OF BIRTH 16-12-1993

### Links

<https://github.com/BernardoMB>

<https://www.linkedin.com/in/bernardo-mondragon>

<https://independent.academia.edu/BernardoMondragon>

### Skills

- Analytical and flexible approach to problem solving
- Able to deal with complex maths and technical problems

### Programming

**Languages:** TypeScript, JavaScript, C#, SQL, R, Python, Java, Visual Basic, Objective C, RMarkdown, Bookdown, MatLab, Maple, LaTeX, HTML5, CSS, SCSS.

**Frameworks:** Angular, NodeJS, Express, NestJS, ReactJS, Redux, Blazor Server, Blazor WebApp, .Net Framework, .Net, ASP.NET, ASP.NET MVC, Polymer, TypeORM, Angular Material, Bootstrap, Syncfusion, Ext.Net, D3 JS

**Databases:** MongoDB, PostgreSQL, MySQL, SQL Server, MySQL, Microsoft Access

**Cloud:** Microsoft Azure, Amazon Web Services, Google Cloud, Azure DevOps, Heroku, Netlify, Twilio, SendGrid, Stripe, DHL, FedEx

### Languages

Spanish

English

### Profile

I am an actuary with vast experience in Full Stack Development and with a demonstrated history of working in the information services industry.

Skilled in Insurance Theory, Risk Management, Software Development, Business Intelligence, and Product Development. Strong analytical professional with a Bachelor's Degree In Actuarial Science focused in Applied Mathematics to assess risk in insurance, finance and other industries and professions. I consider myself a fully qualified actuary who has the confidence to work on my own initiative and with the ability to play a key role within a leading company. I am a quick learner who can balance theory along with practical solutions.

### Education

**Bachelor's in Actuarial Science** AUG 2013 - AUG 2018

Applied mathematics and statistical methods to assess risk in insurance, finance and other industries and professions.

**Diplomat in Insurance Theory** OCT 2021 - On

**Solvency II Diploma** NOV 2020 - FEB 2021

**Instituto Tecnológico Autónomo de México (ITAM)**  
**Universidad Nacional Autónoma de México (UNAM)**

### Experience

**Full-stack Developer** NOV 2020 - PRESENT

**Zurich Insurance Company, Mexico City**

.Net development of sureties administration system in Zurich North América.

Financial Analysis, Risk Underwriting Automation and Account Management.

Support and development of underwriting app for international policies; from data capture to issuance.

Technologies used: .Net, Blazor, Entity Framework, SQL Server, Git, Bitbucket, Jira, Jfrog, Redis, Dynatrace Jenkins, Linux VMs, Figma.

**CoFounder** JAN 2019 - JAN 2022

[Kalyptio.com](https://kalyptio.com)

Design and execute strategic processes to deliver best quality software for our clients.

I monitor that industry standards are met according to best coding practices.

I have satisfied over 30+ customers providing them with software that suits their needs.

**Lead Developer** JAN 2014 - DEC 2018

**Neolinx de México SA. de CV., Mexico City**

Successfully developed and implemented software solutions to manipulate and analyse data generated by the telecommunication industry for Mexico's Attorney-General's Office (PGR) and Mexico's Center of Investigation and Nation Security (CISEN).

Helped saving hundreds of lives and preventing thousands of crimes.

Successfully parsed over 700 million CDR (call detail registries) from different random formats.

**Full-stack Developer** JAN 2013 - DEC 2013

**Grupo Koomkin SA. de CV., Mexico City**

Analyzed digital marketing campaigns data to maximize lead conversion rates for customers. Coded algorithms and designed UI UX flows for lead generation in digital platforms. Successfully increased the lead conversion ratio for 40+ clients.

**Producer** JAN 2012 - AUG 2013

**Ecorise Youth Innovations NPO, Austin TX**

Pedagogue, designer, and producer of educational interactive and animated content.

Animated over 40 educational video lectures for hundreds of students coursing elementary school.

### Freelance

**Instructor** JAN 2019 - PRESENT

**Mexico City**

I teach online courses and create tutorials for students who want to get started in the software development industry.

I have taught hundreds of hours of programming lectures

### Achievements

**Insurance product on IUD failure risk** MAY 2019

**Mexico City**

Developed a model to assess and manage IUD (Intra Uterus Device) failure risk for an innovative insurance product placement.

Successfully computed risk and market premiums, risk reserves, policy values, risk and utility margins and other actuarial measurements for the product under the Solvency II framework in order for it to be a viable and sustainable insurance product.

**Advisor and judge appointment** OCT 2018

**Mexico City**

I was appointed to be judge and advisor of the UNAMxHacks Hackathon organized by the National University of Mexico (UNAM).

Helped contenders to choose and implement different technologies in order for them to solve the event's challenges.