

NIREL IBARRA

Software Engineer • Junior Data Scientist • Junior PM • Lecturer

Tech enthusiast skilled in Python and JavaScript, with interest in Data & Analytics, Software Development, and Artificial Intelligence. A perpetual learner with strong time management, flexibility, curiosity, and dependability. Open to feedback, I bring a growth mindset, creativity, and collaboration to projects. Eager for mentorship opportunities, I thrive independently and collaboratively, embracing challenges with rigor. Committed to making a dynamic impact in the tech landscape and academe.



CONTACT

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- https://github.com/knee-rel
- bit.ly/CVNirellbarra

EDUCATION

MASTER OF SCIENCE (MS) in Sustainability Management

Ateneo de Manila University
Aug 2023 - Present (Leave of Absence)
4.0 GPA

BACHELOR OF SCIENCE (BS)
Major in Information Technology Entrepreneurship, Minor in German Studies

Ateneo de Manila University
Aug 2019 - May 2023
3.76 GPA, Magna Cum Laude, Rank #2 in the Graduating Batch of the Program

SKILLS

FULL-STACK WEB DEV

| | | | |
|------------|------------|--------------|-----------|
| HTML | CSS | Tailwind CSS | Bootstrap |
| MaterialUI | Javascript | ReactJS | MongoDB |
| Vue | REST API | JSON | JWT |
| ExpressJS | NodeJS | Django | Flask |
| FastAPI | | | |
| WordPress | | | |

MOBILE APP DEV

React Native Flutter XCode Firebase

DATA SCIENCE & ANALYTICS

| | | | |
|---------|----------|-------|------------|
| Python | Pandas | NumPy | Matplotlib |
| Sklearn | Selenium | SQL | Scipy |
| R | | | |

EXPERIENCE

STRATEGY AND EVALUATION SPECIALIST

Packworks.io | Apr 2024 - Present

- Develop and implement an evaluation framework for departmental programs, projects, and activities, collaborating with cross-functional teams and providing training and support on new processes and tools.
- Perform quantitative and qualitative analysis, prepare management reports, and lead initiatives resulting from evaluations to drive organizational development and improvement, while assisting in planning and executing projects.

SOFTWARE ENGINEER

LFC Technology | Feb 2024 - Present

- Performing data-related analyses using Pandas and NumPy to develop backtesting algorithm for trading platforms QuantConnect and Interactive Brokers.
- Implement robust risk management practices to mitigate trading risks and preserve capital. Employ proper position sizing, stop-loss orders, and risk-reward ratios to manage trading positions effectively.
- Utilize historical market data to backtest and optimize trading strategies for profitability and consistency. Continuously refine and improve trading algorithms based on performance analysis and market feedback.

JUNIOR PROJECT MANAGER & DATA SCIENTIST

Ateneo Center for Computing Competency and Research | Feb 2024 - Present

- Collaborating on FASSTER, a project for COVID-19 and dengue monitoring dashboard system for the Philippines and its local government units. Utilizing Python for backend, JavaScript for frontend.
- Assist in project planning, coordination, and resource management. Conduct data analysis, implement algorithms for disease surveillance. Design interactive dashboards for visualizing epidemiological trends.

PART-TIME FACULTY

Ateneo de Manila University | June 2023 - Present

- Leads sustainable tech research at BUILD, specializing in Python, and develops reusable libraries for student-led start-ups. Utilizes tools like Selenium and LLMs to drive innovation and practical applications.
- Conducts influential workshops in Python and JavaScript for School of Management Honors Programs, fostering hands-on learning. Integrates web development initiatives like API workshops to support students in their entrepreneurial endeavors.
- Introducing web development in class as an initiative to help students with their student-led start-ups.

WORDPRESS DEVELOPER

Freelance Work at Polydoor | July 2023 - Dec 2023

- Prototyped a website for a door wholesaler company in the Philippines using Figma. Built the website using WordPress and WooCommerce plug-ins.
- Tweaked current website templates through CSS and PHP. Deployed the website using GoDaddy.

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SKILLS

AWS CLOUD PRACTITIONER

AWS EC2 AWS RDS Amazon S3
AWS CDN AWS IAM

UX/UI Version Control

Figma Miro AdobeXD Git GitHub

LANGUAGES



GRANTS/SCHOLARSHIPS

Athletic Scholarship in Ateneo de Manila University

Temasek Foundation Scholarship for the NUS Summer Programme for Entrepreneurship

Singapore Management University Scholarship for the Digital Transformation and Analytics Online Data Camp

VOLUNTEER WORK

ATENEO LINGUA ARTS AND CULTURA

Turuan program tutor

Teaching fellow students basic German language skills.

ATENEO DE MANILA UNIVERSITY OPEN HOUSE '23

Speaker

Gave a talk about University life in the BS IT Entrep Program to incoming freshman students.

FAST ATENEO SWIMMING TEAM

Co-Captain

Managing younger swimmers and helping with short-term and long-term planning by actively looking for sponsors, making suggestions for team dynamics improvements, and scouting for suppliers of merchandise.

WORKING EXPERIENCE CONTINUED

WEB DEVELOPER

Buzzin PH | Oct 2022 - Aug 2023

- Built a website using WordPress and WooCommerce plug-ins to create the product of the start-up, which is a tool that enables bars to efficiently manage orders, payments, and key customer insights to maximize sales during peak hours.

TECH LEAD

Tom Taps Universe | Dec 2021 - Aug 2022

- Built a Flutter-based application prototyping, ensuring functionality of interactive cards. Specialized in developing an AAC app tailored for autistic children. Built features involve the picture card communication feature and the shop.

WEB DEVELOPER

BYTE | Sept 2021 - Oct 2021

- Developed the inaugural website for BYTE, the course's home organization, employing React library Gatsby for the front end and Strapi as the backend headless CMS handling dynamic data fetching.

WEB DEVELOPER

Google Developer Students Club (Loyola) | Nov 2020 - Apr 2021

- Developed a responsive production website for advocacy organization Eskwelabs using Vue.js. The project involved using dynamic data handling and API integration through Strapi.io.

FRONT-END DEVELOPER INTERN

Alternative Housing Group | Aug 2020 - Feb 2021

- Ensured webpage responsiveness with CSS and Tailwind CSS, performed QA testing for optimal UX,
- Adhered to best practices for code maintenance and page creation using NextJS for their new web-based product.

INTERNATIONAL SCHOOLING PROGRAMS

DIGITAL TRANSFORMATION AND FINANCIAL ANALYTICS USING PYTHON

Singapore Management University | Feb 2023

- Participated in a two-week intensive BootCamp immersing students in Python libraries (pandas, matplotlib, etc.) for analyzing companies and their stock market positions.

NUS ENTERPRISE SUMMER PROGRAM IN ENTREPRENEURSHIP

National University of Singapore | July 2021

- Participated in a two-week immersive summer program designed to cultivate young entrepreneurs through exposure to Singapore's vibrant startup ecosystem.
- Under a full scholarship provided by the Temasek Foundation.