Girish Gupta

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Founding Full-Stack Software Engineer, *Subcity*
November 2021 –
- First hire at Homebrew-funded startup which helps small, low-tech businesses manage cash flows, obtain government subsidies, and generally optimize processes.
- Worked directly with founders on business strategy, as well as customers on product.
- Conceived, rapidly built, and demonstrated products to customers. Iterated on feedback..
- Integrated with Codat, Plaid. Built ETL pipelines. (Ruby on Rails, React. PostgreSQL. AWS.)

Author, *Always Go*
March 2021 – October 2021
- Honest memoir about my time as a journalist. I dig into my motivations, as well as successes and failures; expand on my reporting; and take a critical look at the industry.

Chief Technology Officer, *Deepnews*
April 2020 – March 2021
- Led technology to score journalistic writing based on reporting quality.
- Rebuilt system and machine learning architectures which hugely improved efficiency and accuracy.
- Evolved NLP model from convolutional to transformer network.
- Built software to parse, score, and query hundreds of thousands of articles per day, a website to show scoring, and an API. (GCP, Python, Tensorflow, PyTorch, PHP, MySQL)

Head of Data Science, *IDFC Institute*
May 2019 – May 2020
- Created a data science unit at the Rockefeller-, Gates-, and Ford-funded public policy non-profit. Liaised with funders, government officials, and academics.
- Team conducted and published research, built platforms, created interactives, and advised government on urban mobility, open-source mapping, privacy/data governance, and COVID-19.

Founder/Chief Executive Officer, *Data Drum, Inc.*
May 2018 – April 2020
- Created a U.S. corporation providing automated, clean, and elegantly-presented economic data, in order to make public data accessible.
- Led developers, economists and regional experts. Met with potential customers and investors.
- Built ETL pipeline (MySQL, PHP, Python) and website. Managed mobile apps (React Native), API (Node.js/Express.js), and Google Sheets and Microsoft Excel add-ins (JavaScript).

Senior Correspondent, *Reuters*
June 2015 – May 2018
- Produced major investigations, including showing that the results of a national Venezuelan election were fabricated; secrets about the country's military, including surface-to-air missile inventories and lists of soldiers arrested for treason and rebellion; that the country's Chief Justice was arrested on suspicion of murder; and multi-billion dollar corruption at Venezuela's state oil company.
- Produced text, photos and TV on Venezuela's hyperinflation, social decay, food riots and protests.
- Reported also in Iraq, Afghanistan, and the United States, as well as Colombia and Ecuador.
- Wrote software to automate story-writing, data-gathering, and admin.
- Coordinated on-the-ground and digital security in an extremely hostile environment.

Creator, *Venezuela Econ* (absorbed into *Data Drum, Inc.*)
December 2014 – April 2018
- Created the go-to data platform on one of the world's most opaque countries.
- Wrote iOS/WatchOS (Swift), Android (Java), and web apps (PHP/MySQL), as well as an API (PHP).

Freelance foreign correspondent, *Reuters*, *New Yorker*, *New York Times*, *TIME*, *Financial Times*, *NPR*, *BBC…*
October 2010 – May 2015
- Produced text, photos, video and radio in Venezuela, as well as Brazil, Colombia, Cuba, Ecuador, Egypt, Guyana, Jordan, Lebanon, Peru, and Mexico, for some 50 news outlets.
- Covered the cancer, election and death of Venezuela's Hugo Chávez, the messy transition to Nicolás Maduro's rule and the crisis that followed, including daily violent unrest.
- Investigated diamond smuggling from illegal jungle mines in the Amazon, a Colombian paramilitary massacre, and the killing of wildcat gold miners there.

Physics (Master's, MPhys) at *University of Manchester*
September 2006 – June 2010
- Abstract to Master's project—a computer simulation (C) of the heart exploring atrial fibrillation—published in the *Proceedings of The Physiological Society*.
- Bachelor's project on negative index of refraction; first year essay on the physics of music.
- Officer Cadet, *MSUOTC*. First aid, weapon handling, drill, leadership, fieldcraft and military tactics.

Natural Sciences (Math, Physics, Chemistry, Geology) at *King's College, Cambridge University*
September 2005 – June 2006

Courses:
    The Relativistic Universe 2023 *Open University*
    Introduction to Developmental Psychology 2022 *Queensland/edX*
    Fundamentals of Music Theory 2022 *Edinburgh/Coursera*
    Founder, First 50 and Writer fellowships 2020/1 *On Deck*
    Introduction to Computer Science 2020 *Harvard/edX*
    Deep Learning Specialization 2020 *deeplearning.ai/Coursera*
    Hostile Environment Training 2015 *Hawthorne/Reuters*
    Surviving Hostile Regions 2012 *AKE/Rory Peck*
    Military Training Qualification 1 2007 *Officers' Training Corp/British Army*

Side-Projects:
    Math for Journalists 2021 Quick iOS app to help journalists with basic math.
    According to Documents 2020- Highlight document-based investigative reporting.
    Readwise2Roam 2020 Convert *Readwise* book and article highlights to *Roam* notes.
    GlobalOTP 2019- Forward text messages to email.
    Music Goes On 2000-1 Music website listed by *MTV* as one of the web's top 20 sources.

Code:
    C, C++, Java, Swift, PHP, Python, Ruby, R, MATLAB, SQL, HTML, JavaScript, CSS.

Cloud:
    AWS: Lightsail, EC2, RDS, SES, Route 53, S3.
    GCP: Compute Engine, App Engine, Cloud Run, Cloud Build, Cloud SQL, Cloud Storage.

Languages:
    English, Spanish, Hindi/Urdu, basic French and basic Arabic.

Online:
    Website, Twitter, LinkedIn, GitHub, AngelList.