

# Andriy Stasyuk

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Engineer — ML Ninja & Educator — Competitive Programmer — Dropout MD

**Google** *New York, NY → Kirkland, WA* since 2014

Gradient Ventures Startup Resident ..... Jul'20–now

- DS / ML Eng @ Mine, data reclaim recommender
- Head of ML @ TypingDNA, using keystroke dynamics to authenticate and predict emotions

YouTube Music ..... Oct'18–Jul'20

- Rating collection design & relevance modeling
- Collaborative filtering for radio recommendations

Magenta / ML Ninja ..... Jan'18–Oct'18

- Aligned 200+ hours of MIDI / audio for MAESTRO
- Piano synthesis via a generative speech model
- Reharmonization model trained on fake books

Google Maps ..... Oct'14–Jan'18

- Reengineering lifecycle management of *all* external map edits to scale up moderation

**Microsoft** *Redmond, WA* 2011–2014

.NET native toolchain ..... May'14–Sep'14

- Making managed apps run w/o .NET runtime

Managed Languages ..... Sep'12–May'14

- Async causality debugger in Visual Studio
- Roslyn, C# / Visual Basic compiler platform

Visual Studio, Project & Build ..... Oct'11–Sep'12

- Fuzz, scalability, endurance testing

**Deutsche Bank** *St. Petersburg, RU* 2011

Assistant VP, Global Tech Capital ..... Aug'11–Sep'11

- Reimplementing the FX trading platform

**Broadridge** *St. Petersburg, RU* 2008–2011

Paladyne Portfolio Master ..... Aug'08–Jul'11

- Price modeling for derivative securities
- Continuous integration; 20x build speedup

**Prostobank** *Kyiv, UA* Oct'07–Aug'08

- Architected the core data management backend

**Freelancer.com** Mar'07–Nov'07

- Poker probability calculator, heavily optimized





**i.LEVEL** *London, UK* Nov'05–Oct'06

- Content and document management system

**Anahoret** *Donetsk, UA* Feb'04–Jun'04

- Full-stack web development

## PAPER TRAIL

- Enabling Factorized Piano Music Modeling and Generation with the MAESTRO Dataset. [[arXiv:1810.12247](https://arxiv.org/abs/1810.12247)] ..... ICLR'19 oral, **top 1.5%**
- Patents:  [US10545852B2](https://patents.google.com/patent/US10545852B2) [US10078575B2](https://patents.google.com/patent/US10078575B2)  
 [EP2972881B1](https://patents.google.com/patent/EP2972881B1)  [CN105308578B](https://patents.google.com/patent/CN105308578B)  
 [WO2014159147A1](https://patents.google.com/patent/WO2014159147A1)
- Async Causality Chain Tracking. [[MSDN](https://arxiv.org/abs/1810.12247)]

## TEACHING ML & CS

Google and CapitalG startups (up to 80+ people):










- Recommendation systems
- ML crash course
- ML problem framing
- Sequence models
- Data preparation
- Introduction to ML

Schools and regional teams:

- Competitive programming
- Data structures & algorithms
- Intro to CS

## CONTESTS

Olympiads in Informatics:

-  International ..... *South Korea*  3<sup>rd</sup>—'02
-  National .....  2<sup>nd</sup>—'02,  2<sup>nd</sup>—'01
-  Regional .....  1<sup>st</sup>—'02,  2<sup>nd</sup>—'01,  3<sup>rd</sup>—'00

ACM ICPC:

-  SE Europe ..... *România* 9<sup>th</sup>—'03, 10<sup>th</sup>—'02
-  National Cup .....  1<sup>st</sup>—'03,  3<sup>rd</sup>—'04
-  National .....  3<sup>rd</sup>—'04,  3<sup>rd</sup>—'03,  3<sup>rd</sup>—'02
-  Regional .....  1<sup>st</sup>—'04,  1<sup>st</sup>—'03

Problem setter, jury, coach:

-  National Olympiad in Informatics ..... 2003–07
-  National Cup ..... 2003–04

## TECHNOLOGY

TensorFlow Python C++ C#

## EDUCATION

NW State Technical University *St. Petersburg, RU*

- Computer Engineering ..... 2008–10

Donetsk National Medical University *Donetsk, UA*

- *Medicine*  ..... 2004–08

Donetsk National Technical University *Donetsk, UA*

- Computer Eng & System Programming ..... 2002–07