

Nabil Hassein

EXPERIENCE

Khan Academy — *Software Engineer*

Remote — October 2016 - present

- Extensive work on infrastructure and backend code including an overhaul of the permissions grant system, creation of an internal dashboard for all alerts, performance reporting, and a major overhaul of logging and analytics
- Created a predictive model of Google hosting costs accurate within 3% every month, versus a target of accuracy within 15%
- Mentored a fellow (KA position similar to an intern, but for career switchers rather than college students) who received a full-time offer only two months into a four-month stint

Betterpath, New York, NY — *Software Engineer*

New York, NY — October 2013 - February 2016

- Backend development in Scala: wrote RESTful APIs, Datalog (Datomic) queries, internal data transformations, and much more for a now-defunct medical startup
- Devops and system administration: wrote and maintained config files and Ansible/shell scripts to automate all cloud infrastructure related tasks

School for Poetic Computation — *Participant*

New York NY — July 2017

- Accepted into [Code Narratives](#) two-week session
- Created generative-DOOM, a rhyme generator based on the lyrics of MF DOOM: <https://nabilhassein.github.io/generative-DOOM/>

Recurse Center — *Participant*

New York, NY — March 2016 - August 2016; June 2013 - August 2013

- Visualizing NYC criminal court summonses by precinct: <https://nabilhassein.github.io/nyc-summons-precinct-visualization/>
 - An interactive map using NYC open data, built with React, Redux and d3 after preliminary data analysis and transformation using python's pandas library
- Exercises in Idris, a dependently typed programming language: <https://github.com/nabilhassein/idris-meap>

- <https://nabilhassein.github.io/blog/notes-on-idris/>
- yahbfs, yet another haskell brainfuck system: <https://github.com/nabilhassein/yahbf>
 - An interpreter and toy compiler for a simple Turing-machine like esoteric programming language
- bitcurry, an unfinished bittorrent client: <https://github.com/nabilhassein/bitcurry>
- Algorithmic art, Matrix-style green rain: <https://nabilhassein.github.io/p5-sketches>

Lakeside High School, Lake Village, Arkansas — *Math Teacher*

Lake Village, Arkansas — July 2012 - June 2013

- Taught Geometry and Algebra II
- Ran an introduction to computer programming club

EDUCATION

New York University — *Joint B.A. in Mathematics and Computer Science*

New York, NY — September 2008 - May 2012

WRITING

- Against Black Inclusion in Facial Recognition: <https://decolonizedtech.com/2017/08/15/against-black-inclusion-in-facial-recognition/>
- Informal writing on my blog: <https://nabilhassein.github.io>

SELECTED ACTIVITIES, SKILLS AND INTERESTS

- Volunteer teacher of an introductory web development class at the Brooklyn Institute for Liberal Arts, a public high school, via [ScriptEd](#)
- Moderate proficiency in Spanish and Arabic
- Jazz pianist, chess player, amateur boxer

REFERENCES

Available on request