Nabil Hassein

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FORMAL EDUCATION

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

New York, NY — September 2008 - May 2012

PROFESSIONAL EXPERIENCE

School for Poetic Computation — *Teaching Assistant and Organizer*

New York, NY — September 2018 - Present

- Teaching assistant to American Artist for the critical theory of technology course "Dark Matters: Blackness, Surveillance, and the Whiteness of the Screen", and for the upcoming "Code Societies" session
- Participated in editing and producing a physical zine including contributions from every student, in diverse forms including letters, illustrations, essays, and poetry
- Co-organizer of Code Ecologies and upcoming events including "Mathematics as a Religious Experience"

Gakko — *Lead Teacher, Code Forward*

New York, NY — June 2018 - November 2018

- Taught high schoolers fundamental programming skills in a project-based course, primarily based in the web environment of HTML, CSS and JavaScript
- Integrated discussions of social and political topics including climate change, cultural bias in tech, life in NYC schools, and current anti-carceral campaigns

Khan Academy — *Software Engineer*

Remote — October 2016 - February 2018

- Infrastructure work and backend Python and Kotlin coding including: rebuilding logging into dataflow-based multiple streams; performance monitoring; hosting cost prediction; alerting and finance dashboards; and a permissions overhaul
- Mentored a fellow (KA position similar to an intern for career switchers) who received a full-time offer only two months into a four-month stint

Betterpath — *Software Engineer*

New York, NY — October 2013 - February 2016

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

Lakeside High School — *Math Teacher*

Lake Village, Arkansas — July 2012 - June 2013

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

Public School 363 / America Reads — *Classroom aide*

New York, NY — September 2008 - May 2012

- Assisted teacher; worked with combined classes of 1st/2nd graders on all subjects

LifeEnsured — *Software Engineering Intern*

New York, NY — May - December 2011

- Did backend Perl coding and system administration for an early-stage startup

OTHER EDUCATION AND EXPERIENCE

School for Poetic Computation — *Student/artist/researcher*

New York, NY — February - May 2018; July 2017

- Participant in a full-time eleven week session including courses in hardware, software, critical theory of technology, craft, and the artist's toolkit, including homework assignments and class projects, culminating in a final showcase
- Independent and collaborative study with others in the cohort of other artistic and technical topics including music, math, drawing, physics, poetry, and game design
- Code Narratives two-week summer session of evening classes on the topic of computationally generated text, where I built a rhyme generator

Brooklyn Institute for Liberal Arts — *Volunteer teacher*

Brooklyn, NY — September 2017 - June 2018

- Co-teacher of an introductory web development class at BILA, a public high school in my neighborhood, via Code Nation (formerly ScriptEd)

!!Con — *Organizer*

New York, NY — May 2016 - May 2018

- Co-organizer of a popular conference about the joy, excitement and surprise of computing, featuring talks on diverse technical topics

Recurse Center — *Programmer/participant*

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

- Visualizing NYC criminal court summonses by precinct, an interactive map using NYC open data
- An interpreter and toy compiler for a simple esoteric programming language
- Numerous smaller projects and exercises, some viewable on github
- Various in-person talks and workshops, especially on functional programming

PUBLISHED WRITING AND TALKS

- Computing, climate change, and all our relationships
- Ecological Prospects for Computing (currently in print; official link forthcoming)
- Against Black Inclusion in Facial Recognition

LANGUAGES — *native English speaker; moderate proficiency in Arabic and Spanish*

REFERENCES — *available on request*