

Simon J. Bloch

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Software Engineer / Data Scientist

Education

SWARTHMORE COLLEGE, Swarthmore, PA

- Bachelor of Arts degree (B.A.), May 2017
 - Major: Computer Science — Minor: Mathematics (focus in Statistics and Probability)
 - GPA: 3.62
 - Received the Helen Ridgway Cooley (Class of 1907) Endowed Scholarship
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Employment History

GRO INTELLIGENCE- New York, NY

June 2017 - Fall 2021

- Software Engineer—Geospatial processing/modeling, search, misc backend
- Certain highlights included in "Gro" under Recent Projects

TUTOR ASSOCIATES - New York, NY

Spring 2022 - Present

- Professional Math & Computer Science Tutor
- Academic math/CS, calculus, geometry, test prep (ACT, SAT, SSAT, ISEE)

CITY BUREAU - New York, NY

Spring 2022 - Present

- Coder/engineer—City Scrapers initiative track public board meeting data
- Developed scrapers/other backend support [Python+JS]

CARNEGIE MELLON ROBOTICS INSTITUTE- Pittsburgh, PA

June 2016 - Aug 2016

- Summer Scholars Research Program—(See "Pittsburgh" in Recent Projects)

GOOGLE SOFTWARE ENGINEERING INTERNSHIP- Mountain View, CA

May 2015 - Aug 2015

- Software Engineering Intern—(See "Mountain View" in Recent Projects)

SWARTHMORE COLLEGE COMPUTER SOCIETY- Swarthmore, PA

Nov 2014 - May 2017

- Staff Member—Sysadmin for student-run servers, handled web hosting issues
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Recent Projects

FREELANCE WEB DEVELOPER - New York, NY

2022 - Present

- JS, ReactJS, D3.js, NodeJS—Developed multiple responsive websites+data visualizations

BACKEND ENGINEERING/DEVOPS (Gro) - New York, NY

2017 - 2019

- Various projects: Scheduling logic for async worker cluster, re-implementation of search, oversight

PROBABILISTIC CROP MASKING (Gro) - New York, NY

2019 - 2021

- Python, JS, Google EarthEngine—Co-led a small team to develop, test, and productionize probabilistic geospatial crop mask rasters for use in multi-signal models and visualizations.

BACKEND ENGINEERING/DEVOPS (Gro) - New York, NY

2017 - 2019

- Various projects: Scheduling logic for async worker cluster, re-implementation of search, oversight of relational DB, facilitated migration of user data, code cleanup/reviews
- Regular on-call shifts, led on-call trainings and architecture trainings for new engineers

STEREO SENSOR PERCEPTUAL MODEL- Pittsburgh, PA

Summer 2016

- C++, Octomap/ROS—Developed a probabilistic perceptual model for a state-of-the-art sensor to construct a multi-feature map of its environment. Designed to map and model icy moons

PARALLELIZED MERGING OF 3D POINT CLOUDS- Swarthmore, PA

Spring 2016

- C, CUDA—Developed an efficient pipeline to merge multiple 3D Point Clouds on a GPU
- Fully tested+productionized, and developed a sequential version for performance tests

AUDIO-PROCESSING INFRASTRUCTURE- Mountain View, CA

Summer 2015

- C++, Matlab—Designed, implemented, and tested an audio-processing multi-source localization infrastructure, which toggles/controls a fixed nonlinear beamforming algorithm.
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Skills

Languages: Skilled: Python, JS, C++, C

Familiar: Bash, Java, R, Lisp

Tools/APIs: React, D3, AWS, EarthEngine, SQL, Linux, Numpy, Emacs, CUDA, OpenCV, MATLAB

Relevant Coursework: Parallel and Distributed Computing, Probabilistic and Mobile Robotics, Graphics, Algorithms, Computer Vision, Audio Processing, Computer Networks, Linear Algebra, Statistics, Probability, Stochastic modeling, Artificial Intelligence, Data Structures, Computer Systems, Multivariable Calculus, Real Analysis

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Actor / Comedian / Writer

- Lifelong comedic actor/performer/writer
- Skilled at impressions+accents
- **Hair** - Bald | **Eyes** - Brown | 5'7" - 135 lbs
- **Dance** - Tap, Jazz, Ballet | **Voice** - Bass 2

Experience [Sketch/Acting]

- BOOGIEMANJA (ACTOR, "THE RIGHT STUFF") - New York, NY** Feb 2023 - Present
- Montreal Sketch Fest 2023
 - Austin Sketch Fest 2023
- OLD SCHOOL SKETCH SHOW - The PIT, New York, NY** Aug 2018 - Present
- Regular writer/performer in 1-week-cycle productions of full length sketch shows
- HOWDY NEIGHBOR (ACTOR/WRITER) - Digital Sketch Team, New York, NY** Summer 2022 - 2023
- Boogiemanja - Wrote, acted, and edited digital sketches
- PIT HOUSE SKETCH TEAM (ACTOR/WRITER) - New York, NY** 2019 - 2021
- Hallway Baby - Wrote, acted, and edited live/digital sketches
- UCB SKETCH 101 - New York, NY** Summer 2018
- Studied sketch writing
- VARIOUS PLAYS - New York, NY/Swarthmore, PA** 2013 - Present
- Trigorin (*The Seagull*, Anton Chekhov)
 - Mayor (*Government Inspector*, Gogol)
 - Darren (*Mercury Fur*, Philip Ridley)
 - Chris Belling (*Curtains*, Holmes/Ebb)
 - George (*Drowsy Chaperone*, Martin...)
 - **Shakespeare**
 - Pisanio (*Cymbeline*)
 - Egeus/Flute (*A Midsummer Night's Dream*)
 - Touchstone (*AYLI*)
 - Clown (*The Winter's Tale*)

Experience [Improv]

- UCB IMPROV 101, 201, 301, 401 - New York, NY** Summer 2017 - 2018
- Studied long-form improv comedy; Grades: A/A/B/A
- VARIOUS TEAMS/SHOWS - Manhattan/Brooklyn, NY** 2016 - Present
- Improv at Austin Sketch Fest 2023
 - Misc. indie/popup shows around Manhattan/Brooklyn (2021-present)
 - "Pony Danza" indie team (2016-2018)
- VERTIGO-GO IMPROV GROUP- Swarthmore College, Swarthmore, PA** Fall 2013 - Spring 2017
- Performed regularly in improv shows, group captain + treasurer for two years

Experience [Standup/Characters]

- CHARACTERS WELCOME - Under St. Marks, New York, NY** Summer - Winter 2022
- Have performed on both live and digital Characters Welcome shows
- SHACK DADDY (HOST/PRODUCER) - Secret Pour, Brooklyn, NY** Spring 2022 - Present
- Host/produce/perform on monthly standup show
- VARIOUS SHOWS (STANDUP) - Brooklyn, NY** Fall 2016 - Present
- Featured comic performer on various independent shows around the city
- GOOD SKUNK OPEN MIC (HOST) - Secret Pour, Brooklyn, NY** Winter 2022 - Present
- Weekly Host a weekly open mic for standup+characters

Education

- SWARTHMORE COLLEGE, Swarthmore, PA** 2013 - 2017
- Bachelor of Arts degree (B.A.), May 2017
 - Major: Computer Science
 - Minors: Mathematics, equivalent minor in Theater
 - GPA: 3.7
 - Received the Helen Ridgway Cooley (Class of 1907) Endowed Scholarship

Employment History

- PROFESSIONAL TUTOR - New York, NY**
- Tutor Associates (Math/CS/Physics), Test Prep (ACT, SAT, SSAT, ISEE) May 2022 - Present
 - Private Tutor (Math/CS) Fall 2021 - May 2022
- GRO INTELLIGENCE- New York, NY** June 2017 - Fall 2021
- Software Engineer—Backend development, satellite image processing, data science