

SARAH FRIEND

SOFTWARE ENGINEER AND ARTIST WITH EXCELLENT COMMUNICATION SKILLS AND GENERALIST EXPERIENCE

SARAHFRIEND@ISTHISA.COM

## EDUCATION

RECURSE CENTER, MANHATTAN, NY.	2016
BFA: OCAD UNIVERSITY, TORONTO, ON.	2010
MAJOR: DRAWING AND PAINTING.	
MINOR: DIGITAL MEDIA STUDIES.	

## WORK EXPERIENCE

### CIRCLES UBI - LEAD SMART CONTRACT AND SERVERSIDE DEVELOPER 2018-CURRENT

» WROTE AND MAINTAINED SMART CONTRACTS, SERVERSIDE INFRASTRUCTURE INCLUDING: CELERY-BASED TASK QUEUES, DJANGO APPS, NODEJS APIS, THE GRAPH, DOCKER-COMPOSE PROJECTS, MULTISIGS, META-TRANSACTIONS, AND LINUX SERVER CONFIGS.

» PRESENTED AT CONFERENCES, PANELS, AND VARIOUS PUBLIC CONTEXTS ABOUT WEB OF TRUST, GRAPH THEORY, ALTERNATIVE CURRENCIES, AND ECONOMICS, INCLUDING: MONEYLAB, COMMUNITY CURRENCY ALLIANCE, AND THE UNIVERSITY OF TORONTO, FORTHCOMING: THE GRID WITH GRAY AREA FESTIVAL.

» MET WITH OUTSIDE DEVELOPERS TO IMPROVE CIRCLES' APPROACHABILITY AS AN OPEN SOURCE PROJECT, CONDUCTED RESEARCH FOR API DESIGN AND FEATURE PLANNING, RESPONSIBLE FOR DIALOGUE IN PUBLIC CHANNELS WITH THE COMMUNITY

» ADVISED THE TEAM IN REGARDS TO VC PITCH STRATEGY, SOCIAL MEDIA POLICY, MARKETING, ETC

### CULTURESTAKE - LEAD SMART CONTRACT AND FULL STACK DEVELOPER 2019-CURRENT

» WROTE AND MAINTAINED SMART CONTRACTS, INFRASTRUCTURE INCLUDING: NODEJS APIS, REACT, THE GRAPH, DOCKER-COMPOSE, AND LINUX SERVER CONFIGS.

» DEVELOPED TECHNICAL SPECS AND WIREFRAMES FOR A BLOCKCHAIN-BASED QUADRATIC VOTING SYSTEM USING BURNER WALLETS, DESIGNED FOR BLOCKCHAIN-NOVICES TO PARTICIPATE IN CULTURAL DECISION MAKING

### OUR NETWORKS - CO-ORGANIZER 2018-CURRENT

» ASSISTS WITH BROAD-RANGING TASKS ASSOCIATED WITH DELIVERING AN INTERNATIONAL CONFERENCE ON P2P TECHNOLOGY, BOTH PHYSICALLY LOCATED IN TORONTO AND ONLINE INSTANTIATIONS, INCLUDING: SOCIAL MEDIA CONTENT CREATION; COMMUNICATION WITH PRESENTERS, ATTENDEES AND EVENT PARTNERS; FUNDRAISING AND BUDGETING; GRANT WRITING; SWAG PRODUCTION; DOCUMENTATION; CO-ORDINATING WITH A/V TEAM; ADVERTISING; VOLUNTEER CO-ORDINATION AND MISC EVENT PLANNING.

CONSENSYS - SMART CONTRACT AND SERVERSIDE DEVELOPER	2016-2018
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» FIRST DEVELOPER ON BALANC3, HIRED AND GREW THE TEAM TO 16 PEOPLE. DEVELOPED MPV AND TOOK THE PRODUCT THROUGH LAUNCH TO FIRST PAID BUSINESS CUSTOMERS.

» APPRENTICESHIP WITH THE SECURITY TEAM, PARTICIPATING IN SMART CONTRACT AUDITS FOR CLIENTS. WROTE VULNERABILITY REPORTS AND PRESENTED AT NORTHSEC AND SECTOR ABOUT THE 10 BIGGEST VULNERABILITIES IN THE FIRST FOUR YEARS OF THE ETHEREUM NETWORK

» PARTICIPATED IN RAC (RESOURCE ALLOCATION COMMITTEE) - WHICH WAS THE COMPANY HOLOCRATIC PROCESS BY WHICH PRODUCT TEAMS RECEIVED BUDGETS. PARTICIPATED AS AN APPLICANT AND TWICE AS A REVIEWER

GUILD EYEWEAR - PRODUCTION DIRECTOR	2014-2016
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» WROTE AND MAINTAINED SOFTWARE FOR OUR MANUFACTURING PIPELINE IN PYTHON AND GO

» DESIGNED AND BUILT CUSTOMER-FACING E-COMMERCE SITE USING SQUARESPACE CMS

» MODELED AND RENDERED PRODUCTS PROGRAMMATICALLY FOR IN-BROWSER PRE-VIEWS OF MASS-CUSTOMIZABLE PRODUCTS USING RHINO AND MAYA, SCRIPTING IN MEL AND PYTHON

» DESIGNED AND BUILT A 3D SCANNER USING CHDK-HACKED FIRMWARE ON CANON CAMERAS AND PHOTOGRAMMETRY, THEN PROCESSED MODELS FOR CUSTOM-FIT

» CONSULTED ON COMPANY STRATEGY, INCLUDING HIRING, SOCIAL MEDIA, AND MARKETING, BRANDING, AND DESIGN

» PARTICIPATED IN A COLLABORATIVE PROJECT THAT WON JUROR'S CHOICE AWARD IN A TORONTO-WIDE DESIGN COMPETITION, AS PART OF AN EXHIBITION THAT WON OVERALL BEST-IN-SHOW. LATER EXHIBITED IN BROOKLYN, NY

## AWARDS

30 UNDER 30 DEVELOPERS IN CANADA	2018
CANADA ARTS COUNCIL ARTS ABROAD GRANT	2018
BLOCKCHAIN ART COMMISSION, FURTHERFIELD/NEON FESTIVAL	2017
GDC SCHOLARSHIP FOR WOMEN IN GAMES, DMG TORONTO	2017
BEST IN FESTIVAL AND JUROR'S CHOICE, TORONTO DESIGN OFFSITE	2016

## SPEAKING

"QUADRATIC VOTING IN ACTION", RADICALXCHANGE, ONLINE	2020
"CIRCLES UBI" COMMUNITY CURRENCY ALLIANCE, ONLINE	2020
"ARTISTS & CYBER SECURITY" INTERACCESS, TORONTO, ON	2020
"EMPIRES AND ECOLOGIES OF THE CLOUD" TRANSMEDIALE, VOLKSBÜHNE, BERLIN, GERMANY	2020
SOCIAL P2P, ACCESSP2P, BERLIN, GERMANY	2019
ARTISTS TALK, THE NEW SCHOOL, MANHATTAN, NY	2019
ARTISTS TALK, ETH BERLIN ZWEI, BERLIN, GERMANY	2019
"ECONOMIC VIVARIA RESEARCH INSTITUTE: A SPECULATIVE FUTURES WORKSHOP" SERVUS, LINZ, AUSTRIA	2019
"COBWEBS THAT CONNECT US" ART MUSEUM UNIVERSITY OF TORONTO, TORONTO, ON	2019
"DECENTRALIZATION AND ITS DISCONTENTS" DATA TERRA NEMO, BERLIN, GERMANY	2019
"GETTING STARTED WITH P2P" CRAFT CONF, BUDAPEST, HUNGARY	2019
"TACTICAL PLAY: PROTOTYPING ECONOMIC MECHANISMS WITH ROLE PLAYING GAMES" RADICALXCHANGE, DETROIT, MI.	2019
"MONEYTALKS: CIRCLES UBI" SUPERMARKT, BERLIN, GERMANY.	2019
"CIRCLES UBI: TOWARDS A COMMUNITY-OWNED BASIC INCOME" MONEYLAB, SIEGEN, GERMANY.	2019
ARTISTS TALK, FIELDS INSTITUTE, TORONTO, ON.	2018
"DECENTRALIZATION AND ITS DISCONTENTS", DEVCON, PRAGUE, CZECH REPUBLIC.	2018
ARTISTS TALK, MICROWAVE FESTIVAL, HONG KONG.	2018
"CREATIVE ECONOMICS AND NETWORKED ABUNDANCE", RADICAL NETWORKS, BERLIN, GERMANY	2018
"DECENTRALIZATION AND ITS DISCONTENTS", RADICAL NETWORKS, BERLIN, GERMANY	2018
ARTISTS TALK, CHANGE UP, TORONTO, ON	2018
"SMART CONTRACT VULNERABILITIES" SECTOR, TORONTO, ON.	2018
"NEW KIDS ON THE BLOCKCHAIN", MUTEK, MONTREAL, QC.	2018
"UNDERSTANDING BLOCKCHAINS WITH SCRABBLE", OUR NETWORKS, TORONTO, ON.	2018
"SMART CONTRACT VULNERABILITIES" NORTHSEC, MONTREAL, QC.	2018
"UNDERSTANDING BLOCKCHAINS WITH SCRABBLE", ETHEREAL SUMMIT, NYC, NY.	2018
"ARTISTS RE-THINKING THE BLOCKCHAIN" TRANSMEDIALE, BERLIN, GERMANY.	2018
"ART AND EQUITY" MONEYLAB, LONDON, UK.	2018
"MAGIC INTERNET MONEY", MONTREAL INTERNATIONAL GAMES SHOWCASE, MONTREAL, QC.	2017