

# SAMUEL NASER

## SOFTWARE ENGINEER

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## EDUCATION

### Northwestern University

BS Computer Science 2020

Relevant coursework: Data Structures and Management, Human Computer Interaction, Introduction to Computer Systems, Introduction to Computer Graphics, Machine Learning: Foundations and Algorithms  
Cumulative GPA: 3.88

### University of Louisville

BS Computer Science 2017

Relevant coursework: Object Oriented Design with Java, Introduction to Programming Languages (C), Data Science, Calculus II, Calculus III, Differential Equations

Cumulative GPA: 4.0

## SKILLS

**HIGHLY PROFICIENT IN:** Java, Python

**FAMILIAR WITH:** Swift, C, C++, Javascript, HTML, CSS/SCSS

**FRAMEWORKS/TOOLS:** React, Django, Xcode, Git, Angular

## RESEARCH & EMPLOYMENT

### Amino Payments

Software Engineering Intern

Philadelphia, PA

June 2018 to Sept. 2018

- Process high-throughput (100,000+ events per second) advertisement transaction data with Apache Kafka and Apache Samza, reassemble the digital transaction chain in real-time. Redesign the Apache Avro schema at each step of the pipeline
- Develop and maintain critical Python utilities which transform output from our data pipeline into a format usable by our API, configure CircleCI test environment and write integration tests for these utilities

### Design, Technology, and Research (DTR) Lab

Undergraduate Researcher

Northwestern University

Jan. 2018 to Current

- Pioneering systems that allow users to contribute to physical tasks, such as picking up packages or delivering food, without disrupting their existing routines
- Leverage Node.js, Swift, and MongoDB to implement an application stack that allows users to post food order requests, and intelligently notifies users passing restaurants to pick up the order if it's conveniently on their route
- Extensively use Agile development methodologies for project coordination

### Knowledge Discovery and Web Mining Lab

Undergraduate Researcher

University of Louisville

Nov. 2016 to Aug. 2017

- Implemented novel recommendation engine with Python and the Django framework that analyzed user news consumption patterns and recommended articles which negated political biases
- Designed and implemented mobile and web interfaces for user studies using Typescript and Angular with the Ionic cross-platform framework to collect data and test models
- Performed and presented personal research which utilized various Natural Language Processing techniques to analyze a database of user drug experiences in order to isolate the effects of these drugs

### The Glass Capitol

Software Engineering Intern

June 2016 to Aug. 2017

- Redesigned and implemented the site's user system, handling thousands of new accounts per month. Implemented the site's session management, added social logins
- Implemented Python scrapers to retrieve gigabytes of public-domain legislative data and loaded it into the site's Google App Engine instance
- Leveraged Javascript and the d3 library to create interactive data visualizations of stored legislative data

## PROJECTS

FareShare

Jan. 2018 to Current

- Created application with React frontend and MongoDB / Node.js backend to help users coordinate to split rideshare costs
- Led backend team of 3 developers, designed and implemented algorithm to match most compatible requesters
- Finalist in 2018 Improve Northwestern entrepreneurship contest, Resident in Northwestern's startup incubator facility "The Garage"