# MAXIME S. TOKMAN

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## EDUCATION

**Northwestern University**, Evanston, IL *Expected June 2022*
Bachelor of Arts in ***Computer Science*** | Minor in ***Data Science***
*Kellogg Certificate Program for Undergraduates in Managerial Analytics*
Cumulative GPA: 3.41/4.00
Relevant Courses: Data Structures, Design & Analysis of Algorithms, Computer Systems, Machine Learning, Optimization, Corporate Finance, Microeconomics, Discrete Math, Probability & Statistics

## SKILLS

*System/Software:* AWS | Git | LaTeX | Microsoft Visual Studio | Stata | Unix | VS Code | IntelliJ IDEA | Microsoft Office
*Programming:* C/C++ | C#/.NET | CSS | HTML | JavaScript | MySQL | Python | Racket | SQL | XAML | React | React Native | TypeScript | Redux/Redux Toolkit
*Languages:* Russian (fluent) | Spanish (working proficiency)

## RELEVANT EXPERIENCE

**Amazon Web Services (AWS)**, Seattle, WA *June – September 2020*
***Software Development Engineer Intern***

- Collaborated with a team of engineers to develop the front-end of the EC2 console.
- Developed the frontend for the customer purchase experience modal using React, Redux, and Typescript.
- Designed API calls through Redux-Saga and Redux Thunk to fetch necessary data and populate modal components.

**Bizi**, Evanston, IL *June 2020 – Present*
***Software Developer***

- Contribute to a team creating a react native mobile application designed to help students navigate crowded areas on campus.
- Manage development of the map, including a feature that displays color-coded buildings based on real-time occupancy levels.
- Constructed map using a Mapbox API with a custom building shape layer for users to view buildings' live and historical data.

**Beghou Consulting**, Evanston, IL *June – August 2019*
***Software Engineering Intern***

- Developed the backend of the Meridian software application, a geographical information system used by pharmaceutical companies to manage sales territories across the US, using C#.
- Generated database OLEDB-based code and SQL queries to retrieve relevant business data from relational databases.
- Incorporated the Google Maps Directions API into a C# application to display directions between two points.
- Launched a GIS prototype with ThinkGeo infrastructure and a Google Maps overlay to draw a route, a feature for Meridian.
- Produced graph search algorithms to identify "islands" (disconnected zip codes) in each territory using a bridge data file.
- Launched software to identify datasets with overlapping zip codes to help sales representatives avoid the same areas.
- Created a program to dissolve any territory by reassigning its zip codes to the largest neighboring territory.
- Initiated development of a shape-reduction algorithm to simplify jagged borders for faster map rendering and readability.

**Impact of Population on Coronavirus Testing and Deaths** *May – June 2020*
***Independent Project***

- Extracted Covid-19 data to generate polynomial regression and k-nearest neighbors models in Python for predicting testing capabilities and death rates of a region given its population and population density; full report can be found here.

## ACTIVITIES

Sigma Phi Epsilon, Illinois Lambda Chapter (Vice President of Finance)
Northwestern University Political Union
Northwestern University Club Tennis

## ADDITIONAL

**Employment:** Computer Science Tutor, Northwestern University *(February 2020 – March 2020)*
**Interests:** Machine Learning | Web/Mobile App Development | Big Data | Algorithms