MAXIME S. TOKMAN

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EDUCATION

NORTHWESTERN UNIVERSITY • Evanston, IL ***September 2018 – June 2022***
Bachelor of Arts, Computer Science
Minor, Data Science
Kellogg Certificate Program for Undergraduates, Managerial Analytics

- **Relevant Courses:**
  Data Structures and Algorithms (C#) • Design & Analysis of Algorithms • Introduction to Computer Systems • Fundamentals of Computer Programming (Racket & C++) • Intensive Multivariable Calculus and Linear Algebra • Microeconomics • Macroeconomics • Discrete Math • Probability & Statistics • Machine Learning • Optimization
- **Clubs/Organizations:**
  Sigma Phi Epsilon, Illinois Lambda Chapter (Vice President of Finance) • Northwestern University Political Union • Northwestern University Club Tennis

CANYON CREST ACADEMY • San Diego, CA ***August 2014 – June 2018***
High School Diploma

WORK EXPERIENCE

AMAZON WEB SERVICES (AWS) • Seattle, WA ***Summer 2020***
Incoming Software Development Engineer Intern

BEGHOU CONSULTING • Evanston, IL ***June 2019 – August 2019***
Software Engineering Intern

- Used C# to develop features of the Meridian software application (a geographical information system used by pharmaceutical companies to manage sales territories across the US).
- Developed 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. Applied this idea to develop a GIS prototype using ThinkGeo infrastructure with a Google Maps overlay that draws a route with directions between two points, an option to be added to Meridian.
- Wrote various graph search algorithms to determine adjacencies between zip codes within the US. One such algorithm identified the number of "islands" (disconnected zip codes) for a given territory using a bridge data file.
- Engineered a program to identify zip codes covered by multiple territories within 2 or more datasets or not covered at all. This program is used to identify exceptional cases for subsequent management decisions.
- Developed a program to dissolve any territory by assigning its zip codes to the territory with the longest shared border with the zip code.
- Developed a shape-reduction algorithm that removes extra points from polygons in order to increase map rendering performance.
- Enhanced the Meridian user interface using Telerik XAML controls.

NORTHWESTERN UNIVERSITY • Evanston, IL ***February 2020 – March 2020***
Computer Science Tutor

- Tutored a student in a Computer Science class at Northwestern University.
- Covered topics such as recursion, binary trees, and structs in the Racket programming language.

PROJECTS

IMPACT OF POPULATION ON CORONAVIRUS TESTING AND DEATHS ***May 2020 – June 2020***

- Used Covid-19 data to generate polynomial regression and k-nearest neighbors models that predict the testing capabilities and death rates of regions given their population and population density.

SKILLS

Computer Tools & Languages: C/C++ • C#/.NET • Python • AWS • HTML • CSS • JavaScript • Racket • Unix • SQL • MySQL • XAML • Microsoft Visual Studio • Stata • LaTeX • Microsoft Office • Visual Studio Code
Foreign Languages: Russian • Spanish