HANS **BAS**

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Education

University at Buffalo, State University of New York | Buffalo, NY   **Aug 2016 – Present**
Bachelor of Science in Computer Science
Bachelor of Arts in Mathematics
Expected Graduation Date: May 2020
GPA: **3.809/4.000**
- **Relevant Coursework:** Data Structures, Algorithm Analysis & Design, Linear Algebra, Differential Equations, Computer Architecture, Statistical Inference, Higher Math, Discrete Structures, Digital Systems, STEM Communications, Calculus I-III

Professional Experience

Software Engineer Intern | Pittsburgh, PA   **Summer 2018**
Innovative Systems, Inc.
Research & Development Team (R&D)
- Built parser to pre-process data from the Dow Jones Anti-Corruption database; optimized space usage by implementing Simple API for XML. Optimization resolved an issue where company systems ran out of memory when attempting to prepare data for analysis.
- Developed schema migration software to detect differences between databases. Now used for internal company database backups and client-side database installations.
- Refactored company codebase from Visual Basic to C#.

Undergraduate Teaching Assistant | Buffalo, NY   **Aug 2017 – Present**
University at Buffalo Department of Computer Science & Engineering
- Courses: Introduction to Computer Science for Majors I & II
- Conducts assignments, hosts office hours, and manages group projects for 49 students.

Skills

Languages	Java, Python, C#, JavaScript, HTML5, CSS3
Databases	Microsoft SQL Server/Transact-SQL
Data Science	NumPy, Pandas, Sci-Kit Learn, Jupyter Notebooks
Software	Visual Studio, Eclipse IDE, PyCharm, Sublime Text 2
Tools	Chrome DevTools, Adobe Photoshop Scripting, Socrata Open Data API

Projects

Parkr (2018 Buffalo Civic Innovation Challenge)   **2018**
Wrote a script to recommend parking spots within the city of Buffalo based upon the locations and frequencies of previously issued parking summonses.
- Python, Pandas Data Analysis Library, Buffalo OpenData Portal, Socrata Open Data API, Google Maps API

Niche Web Scraper   **2018**
Wrote a web scraper to extract high schools' information from Niche.com. Used to locate all high schools in Western New York in order to promote University at Buffalo to prospective students.
- Python, Requests HTTP Library, Beautiful Soup HTML Parser