Jake Peters

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Education

Georgia Institute of Technology, Atlanta, GA   Expected: Dec 2025
Master of Science, **Computer Science**

Concordia College, Moorhead, MN   May 2022
Bachelor of Arts in **Mathematics**, **Computer Science**

GPA: 3.75/4.00

Honors: *magna cum laude*, Gerald/Jeanette Heuer Math Award, Excellence Scholarship, Dean's List

Relevant Experience

Software Developer, Medical Information Technology Incorporated   August 2022-Present
- o Achieved the highest possible metric for Productivity in annual review GPI/KPI performance metric
- o "Set a new standard for developers of this tenure" in terms of high productivity
- o Obtained Productivity metric that is given to an employee only when contributing significantly to the success of the company
- o Creates production level code that is used in healthcare software
- o Develops software to build and analyze various statistics for the Meditech platform
- o Works on an agile development team involved in the statistics of insurance billing and client receivables
- o Uses a peer review process and version control (JIRA) to ensure quality of software
- o Produces and pushes code to the company servers with the Visual Studio Code platform

Data Researcher, Mathematics and Computer Science Department, Concordia College, MN   June 2021- July 2021
- o Analyzed and cleaned a dataset of the Fargo-Moorhead housing sales history
- o Created computer programs to scrape usable data from websites such as the US Census Bureau website
- o Added rows of mined data to the model to establish extra parameters and build hierarchy
- o Computed various mathematical models using R and RStudio to predict sale price of houses based on a variety of factors
- o Learned a feature of RStudio called R Shiny to build the structure of the model and results into a user-friendly web format
- o Deployed a model and data into a website so users can pick a house they want or predict the price of a theoretical house
- o Worked with a coworker and professor to build the model
- o Merged and revised individual and collaborative work using GitHub
- o https://fargo-moorhead-housing.shinyapps.io/fm_market_shiny/

Website Developer, Undergraduate Research, Concordia College, MN   June 2019 – August 2019
- o Deployed a new website for Concordia's research department (URSCA) (ursca.org)
- o Created features including web forms so students could input research projects and abstracts into the website database
- o Developed familiarity with the WordPress platform, along with HTML, JavaScript, CSS, and PHP
- o Collaborated with coworker and professor on making decisions for what forms and programs to use for the URSCA website

Tutor, Mathematics and Computer Science, Concordia College, MN   July 2021 – May 2022
- o Mentored students in courses such as Intro to Computer Science, Calculus I, and Intro to Data Analytics
- o Fostered learning while guiding students to completion in large Java coding projects and small computational assignments
- o Helped students learn coding by getting their ideas and supporting them on translating ideas into Java code
- o Assisted students in their learning of detail-oriented assignments, including regular expressions
- o Refined support and communication skills while modelling a growth mindset for students

Leadership Experience

Teammate, Tennis Team, Concordia College, MN   September 2018 – May 2022
- o Gained skills rapidly, from not playing tennis in high school to becoming the number one singles player on the college team
- o MIAC All-Conference Honorable Mention (2022)

Co-President, Data Science Club, Concordia College, MN   December 2021 – May 2022
- o Co-founded the Data Science Club at Concordia along with four other students
- o Held bi-weekly club meetings to benefit data-oriented students

Presenter, Mathematical Association of America, North Central Section Fall Meeting   October 2021
- o Communicated findings of Fargo-Moorhead housing research to academics in the field of mathematics
- o Collaborated with teammate to deploy a practiced, timely presentation
- o Answered questions from various academic faculty members about data research methods and programming techniques

Skills

- o Test-driven software development experience using debugging tools in Visual Studio Code
- o R proficiency in the RStudio development environment
- o Data analysis, including data mining, forecasting, statistical modelling (R)
- o Operating systems work in Linux OS (using C) and Linux terminal commands (via Ubuntu)
- o Scripting language experience including Python (PyCharm) and JavaScript
- o Database management, including SQL (Relational) and Object-Oriented Databases
- o Object-Oriented Programming, including Java
- o Version control with GitHub Actions, JIRA
- o Web development, including HTML, CSS
- o High-level mathematics, including: Probability, Statistics, Real Analysis, Differential Equations, Linear Optimization
- o Technical writing
- o Teamwork and collaboration