Saugat Pandey

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EDUCATION

Washington University, St. Louis, Missouri — *Graduating May 2026*
Doctor of Philosophy in Computer Science

Beloit College, Beloit, Wisconsin — *Graduated May 2021*
Bachelor of Science in Computer Science and Mathematics, minor in Chemistry
Cumulative GPA: 3.728/4.0

RELEVANT COURSES

Introduction to Machine Learning, Advanced Visualization, Data Mining, Threads and Operating Systems, Algorithms Design and Analysis

ACADEMIC EXPERIENCES

Research Assistant — Washington University
Professor: Michael Brent — September 2021 - October 2021

- Created a tool that automatically creates a masking of Cryptococcus neoformans images using the annotated files for training convolutional neural networks.
- Software and Libraries Used: OpenCV, NumPy, pandas, Jupyter Notebook

Mathematics Course Assistant — Beloit College
Professor: Ranjan Roy — May 2020 - June 2020

- Created 6 reports using LaTeX, each of size 15-20 pages, from a book called "Mathematics for Sustainability by John Roe, Russ deForest, and Sara Jamshidi" which will be incorporated into a course about sustainability at Beloit College.
- The reports summarized topics such as Networks and Models, Probability and Statistics, understanding of stock-flow systems with respect to sustainability.

Summer Science Scholar — Beloit College
Professor: Darrah Chavey — May 2018 - July 2018

- Researched the possibility of generating sub-graphs with 4 or more edges inside aliquot graphs using the sum of divisor function.
- Designed a graphical user interface that allows researchers to generate a list of graphs of desired edges along with filtering capabilities like the range and the size of graphs using JAVA GUI frameworks like AWT and Swing.

TEACHING EXPERIENCES

Teaching Assistant — Beloit College
Computer Science Department — Sep. 2018 - May 2021

- Courses: Introduction to Object-Oriented Programming, Data Structures and Algorithms, Discrete Structures, Computer Architecture
- Organized three 2-hour long interactive help sessions every week to help students understand the topics covered in the introductory CS course, Data Structures, Computer Architecture, and Discrete Structures covering areas like logic, counting, graphs and trees, logic gates, and combinational circuit designs.

Teaching Assistant — Beloit College
Physics Department — Sep. 2018 - December 2018

- Courses: Fundamentals of Physics (PHYS 101)
- Assisted 40-50 students with understanding topics like optics, electric current, work & energy along with the lab experiments.

POSTER PRESENTATIONS

2018 Mid-states Research Consortium, Washington University in St. Louis

- Presented poster at an undergraduate research consortium. The presentation was about the research project, Graphs from the Sum of Divisor Functions, which was done under the supervision of Prof. Darrah Chavey.

2018 Homecoming Student Days, Beloit College

- Presented poster on a research project, Graphs from the Sum of Divisor Functions, to prospective students.

AWARDS SCHOLARSHIPS

Walter S. Haven Physics/Astronomy Prize: Awarded by the faculty of Beloit College for outstanding research in the STEM Field.
Summer Science Scholar: Awarded $4,500 in Summer 2018 for pursuing a research project for the department of Computer Science.
Presidential Scholarship: Awarded merit scholarship of $30,000 annually for four years towards undergraduate education.
Field Experience Recipient: Awarded a grant of $\$2,000$ to travel to Nepal and study the diverse culture and earthquake that took place in 2015.

SKILLS

Programming Languages: Java, Python, JavaScript, C++, SQL, HTML, CSS
Frameworks: React, Node.js, Django, Bootstrap, JUnit, Wordpress
Developer Tools: PyCharm, IntelliJ, Eclipse, VS Code, Git
Libraries: NumPy, pandas, Matplotlib
Instrumentation/Equipment: Infrared Spectroscopy, NMR Spectroscopy ($_1$H & $_{13}$C), Thin-Layer Chromatography, Capillary Gas Chromatography
Languages: English (Fluent), Nepali (Fluent), Hindi (Native)
GitHub: https://github.com/iamsaugatpandey