Ross T. Sowell

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SUMMARY

Computer science professor seeks position where he can gain industry experience, collaborate with interesting people, solve challenging problems, and build great software.

WORK EXPERIENCE

Sewanee: The University of the South (Associate Professor)   Fall 2023 - present

Created and taught courses: Principles of Interactive Computer Graphics (JavaScript, WebGL, Three.js), Object-Oriented Programming (Java), Introduction to Modeling and Programming (Python, Jupyter Notebook)

Rhodes College (Assistant Professor)   Fall 2018 - Spring 2023

- Created and taught courses: Human-Robot Interaction (Python, ROS), Computer Graphics (JavaScript, WebGL, Three.js), Data Structures and Algorithms (Java, C++), Discrete Structures for Computer Science, Object-Oriented Programming (Java, C++)
- Principal Investigator (PI), National Science Foundation, "Grounded Reasoning about Robot Capabilities for Law and Policy," 3 year grant. $84,657 (Rhodes part) $750,000 (total award).

Cornell College (Associate Professor, Department Chair)   Fall 2011 - Spring 2018

- Created and taught courses: Professional Practice, Human Robot Interaction (Python, ROS), Virtual Reality (C#, Unity), Computer Graphics (C++, OpenGL), Systems Software, Algorithms and Data Structures (Java), Introduction to Data Science (R), Computer Organization, Discrete Mathematics for CS, Software Architecture (Java), Foundations of Computer Science (Java, Python, R), The Beauty & Joy of Computing
- Co-PI, National Science Foundation, "Mentoring Students to Success in STEM Fields," 5 year grant. $649,997 (total award).

PROJECTS

VolumeViewer   https://volumeviewer.cse.wustl.edu

An interactive tool for fitting surfaces to volume data. Collaboratively developed with Washington University School of Medicine. Executables and source code are freely available for download. Built using C++ and OpenGL.

EDUCATION

Ph.D. in Computer Science at **Washington University in St. Louis**	2012
B.S. in Computer Science at **Sewanee: The University of the South**	2005

SKILLS

Languages	Java, Python, C, C++, C#, JavaScript, Haskell, R, Julia, MATLAB, SQL
Technical practices	test-driven development, unit testing, documentation, code reviews, teamwork