James Garner Williams

440 Meriden Rd. Waterbury CT 06705
pagenotes@gmail.com
860-501-1483

Researcher, Writer, and Author with 32 Years of Experience. Able to research, organize and communicate solutions. Meticulous. Able to think outside the box.

Skills

- Bottom-up analysis
- Implicit structure divination
- Mathematical research
- Quick learner

- Top-down design
- Requirements analysis
- JavaScript
- Congeniality

- Literature searches
- Concept creation
- Basic website design
- Compassion

Work History

Cannabis Research   Norwich, CT   2018 to present
   Author: Researches and writes about cannabis compounds and their application to particular illnesses.

Webmaster
                              .   .   .   .   .   2002 to present
   Owner: Maintains the site pagenotes.com as a personal library. Maintains hempforhealth.net to advertise Jim's cannabis research.

Citations Online   Norwich, CT   2019 to 2022
   Author: Created a citation style and reference architecture exclusively for communicating on the Internet.

Backus Hospital Radiation Oncology   Norwich, CT   2018 to 2019
   Patient: Successfully treated prostate cancer with radiation and cannabis compounds.

Walmart   Brooklyn, CT   2013 to 2018
   Sales Associate: Helped set up a new store. Worked in toys, sporting goods, hardware, apparel, and paint.

Home Instead Senior Care   Tolland, CT   2012 to 2013
   Care Giver: Provided transportation, house cleaning, and companionship for elderly people.

Eastern Connecticut State University   Willimantic, CT   2008 to 2010
   Assistant Professor: Taught math courses, tutored students, and counseled students.

Acton Recovery House   Acton, MA   Fall of 2008
   Owner/Manager: Maintained resident case records for dual-diagnosis residents. Took residents shopping and to doctors' appointments, organized recreational activities, and found suitable housing.

Hope House   Leicester, MA   Summer of 2008
    Assistant Drug Counselor: Performed resident intake and discharge paperwork, led a weekly newcomers' group, participated in group and individual counseling, and in resident assessments. Communicated knowledge for treating the disease of addiction.

Family Medical Activities   Acton, MA   2000 to 2008
    Direct Care Provider: Took care of Jim's mother who suffered from dementia.

The MITRE Corporation   Bedford, MA   1979 to 2000
    Lead Scientist, Group Leader, Project Leader: Performed research in information security and automated deduction, wrote and edited information security guidelines and standards, and made advances in Integrity and confidentiality.

Bowling Green State University   Bowling Green, OH   1970 to 1979
    Assistant professor: Did research in topology, algebra, and category theory. Taught courses in topology, logic, calculus, finite mathematics, and math appreciation.

Education

Certificate: Alcohol and Drug Counseling, Cambridge College, 2008
Postgraduate work: Computer Science, University of Texas at Austin, 1976 to 1979
Doctor of Philosophy, Mathematics, University of California at Berkeley, 1971
Bachelor of Arts, Mathematics, Carleton College, 1966

Selected Publications

Citations Online Architecture: Adapting to the Online Environment.
http://pagenotes.com/reference/
April 2023

The rightful requirements for an online reference section differ significantly from those of an ink-and-paper reference section. There are 30 main differences. Here are the top three: (1) We live in a world where virtually every document has an online presence—such as an abstract, for example. (2) There is a greater need for attention to the validity of the referenced works. (3) Being online, there is the opportunity for automated assistance in constructing the reference section.

Cannabis Compounds for Medical Conditions
https://hempforhealth.net/cannabis/reader-view/index.htm
February 2023
Introductory article outlining a series of articles on medical conditions and how cannabis compounds can help.

Cannabis Compounds for Medical Conditions: An Evidence-Based Guide
https://hempforhealth.net/cannabis/index.htm
June 2020

Web book. A webbook is essentially a little website. It differs from a traditional book in that its pages are arranged as a directed acyclic graph rather than as a straight linear sequence.

The following conditions are covered in the book: arthritis, physical pain, neurological conditions, psychiatric conditions, chemical addictions, cardiovascular conditions, and cancer. A final chapter summarizes the book's findings in a tabular format.

Sound Information Handling: Application to Errors in Medicine
http://pagenotes.com/writings/TEPR96/
May 1996
The paper presents an integrity model for systems security and applies it to a well-known example of a fatal medical error.

A Guide to Understanding Security Modeling in Trusted Systems
https://irp.fas.org/nsa/rainbow/tg010.pdf
October 1992
This is the National Computer Security Center's guide to security modeling. It covers popular security models and adds integrity and availability to the more traditional confidentiality models.

Instantiation Theory: On the Foundations of Automated Deduction
https://www.google.com/books/edition/Instantiation_Theory/cikdPUBrKSMC?hl=en&gbpv=1&dq=instantiation+theory&printsec=frontcover#v=onepage&q&f=false
June 1991
This book presents a theory that would allow automatic theorem provers to manipulate, rather than individual formulas, whole classes of logically equivalent formulas.

Modeling Nondisclosure in Terms of the Subject-Instruction Stream
May 1991
At the time the security modeling guideline was being written, there were two main models of confidentiality, one a state machine model and the other a model of inputs and outputs. This paper presents a common model that generalizes both of them.

On the Formalization of Semantic Conventions
https://www.jstor.org/stable/2274964
March 1990
At the time, people building formal verification systems were trying to do it using Tarski's First Order Logic. It didn't work. The reason was, as this paper proves, that common programming constructs are not efficiently formalizable in First Order Logic.

Curve Sketching on a Teletype
September 1975

At the time, students were doing curve sketching on teletypes, and the results were none too pleasing. Jim halved the granularity of the sketches by using both single quotes and commas in the sketched curves.

On a Question of Pulter, Regarding Categories of Structures

1974

Solved an open problem posed by a Polish mathematician.

Locally Uniform Spaces

https://www.jstor.org/stable/1996185

1972

Ph.D. thesis on a generalization of uniform spaces.