

Resume for Donald James Braffitt (Don Braffitt)



http://willbraffitt.org/don/don_braffitt_resume.html
http://willbraffitt.org/don/don_braffitt_resume_brief.html
 680 Deercroft Drive
 Blacksburg, VA 24060-0267
don@willbraffitt.org
 18-Jul-2018

Education

- Career Switcher Program, 2006, **Virginia Community College System**, Richlands, VA
 - PRAXIS II Mathematics: Content Knowledge (0061): 167 (ETS Recognition of Excellence)
 - Virginia Eligibility License 2006-2007 (Computer Science and Mathematics)
 - Teaching Methodology coursework: introduction to teaching, curriculum and instruction, classroom management, teaching and learning in mathematics, teaching reading in the content areas
- M.S., Computer Science, 1977, **The Pennsylvania State University**, University Park, PA
 - GRE math/verbal: 780/580; GPA: 3.9 (out of 4.0)
 - Upsilon Pi Epsilon (national honor society for the computing sciences); Phi Kappa Phi (national honor society)
 - Computer Science coursework: data structures, algorithm design and analysis, programming languages, operating systems, database systems, recursive function theory, formal languages, artificial intelligence, combinatorics and graph theory
 - Primary programming experience: PL/I, Pascal, FORTRAN IV, APL, Snobol
 - Master's paper: *Some Considerations of Program Schemata*
- B.S., Mathematics, 1975, **Armstrong State College**, Savannah, GA
 - SAT math/verbal: 770/630; GPA: 3.9 (out of 4.0), summa cum laude, graduated 5th (out of 197)
 - National Merit Scholarship winner; Pi Mu Epsilon (national mathematics honor society); Outstanding [Senior](#) in Mathematics
 - Mathematics coursework: calculus, differential equations, statistics, numerical analysis, linear algebra, abstract algebra, number theory, mathematical logic, complex variables, topology, modern analysis, measure theory, history of mathematics
 - Computer Science coursework: FORTRAN programming, business programming, computer organization, statistical methods
 - Primary programming experience: BASIC, ALGOL, FORTRAN II, IBM Assembler, CDC 6400, PDP-8, IBM 1130

Teaching Experience

- 2006-2018 **Radford University**, Radford, VA, Instructor, retired 2018 - Department of Information Technology
 - Responsibilities included developing teaching information technology, computer science, and information systems classes for undergraduate students and advising undergraduate students
 - Classes included introductory problem solving and programming (CS0), discrete mathematics, and software testing
 - Class plan: <http://www.radford.edu/dbraffitt/>

- Primary programming experience: Java, HTML, CSS, JavaScript, JUnit, JWebUnit
- 2006 **Blacksburg High School**, Blacksburg, VA, Field Placement - Career Switcher Program
 - Responsibilities included teaching computer science classes for 9th through 12th grade students
 - Primary programming experience: Java
- 2000 **Hollis Upper Elementary School**, Hollis, NH, Parent Volunteer - 6th Grade Math Choice
 - Responsibilities included teaching mathematics problem solving techniques for a small group of 6th grade students
 - Class plan: <http://willbraffitt.org/math.html>
- 1981-1984 **Rivier College**, Nashua, NH, Lecturer - Department of Mathematics and Computer Science
 - Responsibilities included developing and teaching mathematics and computer science classes part-time for upper division undergraduates and first-year graduate students
 - Taught one of the first two classes in the graduate program in computer science at Rivier College
 - Classes included fundamentals of computation and data structures
 - Class plan: <http://willbraffitt.org/rivier/>
- 1975-1977 **The Pennsylvania State University**, University Park, PA, Graduate Assistant - Department of Computer Science
 - Responsibilities included assisting and teaching introductory computer science classes for undergraduate science and business majors
 - Classes included introduction to programming, data structures, and formal languages
 - Class plan: <http://willbraffitt.org/pennstate1977.pdf>
- 1971-1975 **Armstrong State College**, Savannah, GA, Student Assistant - Department of Mathematics and Computer Science
 - Responsibilities included tutoring math and programming portions of a library information system

Software Development Experience

- 1978-2005 **Hewlett-Packard**, Software Engineer, retired 2005 - Programming Languages
 - Formerly **Compaq Computer Corporation** and **Digital Equipment Corporation** (DEC)
 - 1989-2005 Project Leader (1994-2005) and Developer, COBOL and SORT, Spit Brook, Nashua, NH
 - Responsibilities included leading a five person geographically distributed team (NH, VA, and India) developing, maintaining, and supporting COBOL compilers, run-time components, and sorting utilities for OpenVMS (I64, Alpha, VAX), Tru64 UNIX (Alpha), and Windows NT (Alpha)
 - Responsible for entire product life cycle including design, implementation, testing, automation of regression test system, maintenance, and customer support
 - 2002-2005 - Led the port of HP COBOL, SORT32, and Hypersort from Alpha to I64 (Itanium)
 - Experience with compliance against relevant ANSI, ISO, and X/Open standards
 - Primary programming experience: Bliss, C, RMS
 - Additional programming experience: C++, Macro, Unicode, Java, HTML, Linux, Oracle CDD/DBMS, Mathematica
 - Training: Intel Itanium IA-64 architecture
 - 1986-1989 Liaison from **Digital Equipment Corporation** to the **Microelectronics and Computer technology Corporation** (MCC) Software Technology Program (STP), Corporate Research and Architecture, Austin, TX

- Responsibilities included technology transfer to relevant software development groups
- Research areas: Program development environments; groupware
- Primary programming experience: Lisp, C, SunOS
- Training: Japanese
- 1982-1986 Project Leader (1984-1986) and Developer, VAX RPG II, Spit Brook, Nashua, NH
 - Responsibilities included leading a three person team developing, maintaining, and supporting an RPG II compiler and run-time components and language sensitive editor for VMS (VAX)
 - Designed and implemented a language sensitive RPG II editor with integrated syntax checking, compilation, and error review
 - Primary programming experience: Bliss, TPU, FMS
 - Training: computer architecture
- 1980-1982 Project Leader and Developer, Advanced Development, Merrimack, NH
 - Primary programming experience: Bliss
 - Training: expert systems technology (Prolog, OPS5)
- 1978-1980 Developer, Application Development Environment, Merrimack, NH
 - Primary programming experience: BASIC-PLUS-2, RSTS/E, RSX-11M, VAX BASIC
- 1977-1978 **Bell Telephone Laboratories**, Holmdel, NJ, Software Engineer and Member of Technical Staff - Automatic Call Distributors
 - Responsibilities included development of a database system used to forecast future call traffic for an automatic call distributor
 - Primary programming experience: C, UNIX, PDP-11

Education-related Volunteer Activities

- 2005-2006 **Blacksburg High School**, Blacksburg, VA, Parent Volunteer - Library
 - Responsibilities included end-of-year library book inventory
- 2000-2002 **Hollis Brookline Middle School**, Hollis, NH, Parent Volunteer - Library
 - Responsibilities included library book re-shelving, checkin, and checkout, and development of the library web site
 - Primary programming experience: HTML, FrontPage, Windows
- 1995-1997 **Hollis Elementary School**, Hollis, NH, Parent Volunteer - Computer Lab
 - Responsibilities included technical support for a network of Macintosh computers
 - Primary programming experience: Mac OS, AppleTalk
- 1977 **Matawan Elementary School**, Matawan, NJ, Volunteer - After School Program
 - Responsibilities included tutoring math

Other Volunteer Activities

- The Lyric Theatre, Blacksburg, VA
- Genealogy volunteer - [research](#), obituary lookups, and [memorials](#) including gravestone photography and geotagging
- Wikipedia [editor](#)
- MUFON - field investigator and research specialist in computer science
- Broomin' & Bloomin', Montgomery County, VA - county roadside cleanup
- Beaver Brook Association, Hollis, NH - hiking trail construction and maintenance