

# Jarrold D. Dunne

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## Education

Rice University

B.S. Computer Science

HOUSTON, TX

Aug '16 – May '20

Franklin Academy High School

Valedictorian

WAKE FOREST, NC

Jul '10 – Jun '15

## Work Experience

Student Computing Consultant

Rice University Office of Information Technology Help Desk

HOUSTON, TX

Sep '16 – Present

Assist faculty, staff, and students at the Information Technology Student Help Desk. Duties include: account management, email, printing, and network connectivity; log and resolve tickets; schedule appointments for hardware repairs; assist students (walk-ins, telephone, email, and chat tool) with questions and problems related to the use of Rice University computing resources.

Freelance Software Engineer

Jarrold Dunne's Software Services

RALEIGH, NC

Apr '14 – Present

Developed software solutions for two clients, utilizing Excel, Python, and bash scripting. Automated and digitalized a mass mailing list, extracted and culminated individual performance metric data from multiple sources, and analyzed change of performance over multiple years.

## Individual Projects and Research

LAT: Location Aware Thermostat

Intel International Science and Engineering Fair (ISEF)

PHOENIX, AZ

Jul '12 – May '13

Designed, built, and programmed a Location Aware Thermostat (LAT) for the 2013 Intel International Science and Engineering Fair (ISEF). Wrote a servlet for Apache Tomcat running on a Raspberry Pi, and interfaced Raspberry Pi to existing HVAC system. Wrote an Android Application to send location data and schedule preferences to the web server. Won 3<sup>rd</sup> Place Computer Science Division at Intel ISEF, Mobile Application Award, and Award for Excellence in Science and Engineering.

Non-Standard Dice Modeling

Summer Ventures in Science and Math at East Carolina University

GREENVILLE, NC

Jun '13 – Jul '13

Research involving non-standard dice combinations at NC Summer Ventures in Science and Math at East Carolina University. Developed algorithms to optimize factoring of special polynomials representing standard dice, in order to mathematically determine non-standard dice combination. Implemented such algorithms in Java to compute new non-standard n-sided dice. Won Catalyst Award, top research paper at ECU Summer Ventures of 125 students.

## Community Service

Eagle Scout Project

Community Outreach Program of Roanoke, VA

RALEIGH, NC, ROANOKE, VA

Jul '13 – Nov '13

Planned and lead the construction of an eight laptop computer lab for the Community Outreach Program of Roanoke, VA, to teach K-8 students computer literacy skills. Involved 150 person-hours, and leading over 25 scouts, adults, and students in Raleigh, NC and Roanoke, VA.

Senior Project

Franklin Academy High School

WAKE FOREST, NC

Jul '14 – May '15

Designed course material for a class on Arduino circuit design and programming to middle school students at Franklin Academy High School in Wake Forest, NC. Taught a class of ten students basic circuitry, programming in the C programming language, and embedded controller design and Arduino prototyping.

## Extracurricular Activities

Boy Scouts of America

Eagle Scout, Senior Patrol Leader

RALEIGH, NC

Jul '08 – Apr '15

Led BSA Troop 364 in Raleigh, NC, consisting of over 60 Scouts and adults. Participated in 2010 National Jamboree in Fort AP Hill, with over 50,000 scouts and adults in attendance. Also participated in Philmont in 2012, involving ten Scouts and two adults over a ten day, 100 mile backpacking trip through Cimarron, NM.

## Skills

Experience with Java, Python, Debian Linux, Android application development, Arduino prototyping, and Raspberry Pi prototyping. Exposure to C, C++, JavaScript, Scheme, Lisp, SAS Web Design, L<sup>A</sup>T<sub>E</sub>X, Apache Tomcat, MS Office, Autodesk, and Git.