Daniel E Trevino

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SKILLS

- Very Proficient: Java
- Working knowledge of and experienced with: C, Ocaml, Ruby,Javascript, HTML, CSS, PHP, SQL, Android development, Prolog, Assembly(y86) .
- Knowledge of and experience with Agile/Scrum project management to incrementally develop products.
- Experienced in cooperating and communicating with large teams on complex projects.

EDUCATION

University of Maryland College Park College Park, Maryland USA 2015 - 2017
Bachelors in Computer Science, GPA: 3.4 (Major)

- Senior. Expected to graduate in December 2017

University of Maryland College Park College Park , Maryland USA 2010 - 2015
Bachelors in Chemical and Biomolecular Engineering

PROJECTS

- **Wordnet**: Using Ruby, programmed a working "Wordnet" which uses hypernym to hyponym (is-a) relationships to define how similar certain words are in meaning to each other by how far they must travel up the tree to reach a common hypernym. This program required file reading, breadth first search design heuristics, and usage of regular expressions to determine invalid inputs.
- **SmallC**: In Ocaml functional programming language, programmed a reduced functionality version of a C language parser. Program will read C code, tokenize the terms, build a parse tree, and then evaluate the code in the order of precedence specified by the parse tree.
- **FTPSecurity**: In Ruby, programmed a simple FTP server and used regular expressions in conjunction with various input sanitization techniques (whitelisting, blacklisting,...) to prevent unauthorized access and command injection.
- **Hashing and String Search**: In Java, created a program that will hash a large block of text into a hash table whose insertion protocol is either ordered, Brent method, or Gonnet-Monroe method. The protocol defines how collisions are dealt with (which elements are displaced). Also, implemented Rabin-Karp string searching algorithm which involves comparing hash values (unrelated to hash table) to determine string matches. This algorithm runs in purely linear time as opposed to the potentially O(n*m) time of naive string searching algorithm.

WORK EXPERIENCE

Sikorsky Aircraft, Stratford, CT USA 01/2011 - 01/2012
Design Engineer Intern

- Updated computer models with changes to part information. Changes included those to documentation or redrawing of models to fit new specifications.
- Worked in a team of 4 to revise 26 specification sheets for fuel system components.
- Worked with part suppliers to help them meet performance standards for parts or change the specifications when necessary.