Dylan Zingler

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Important Links
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EDUCATION

Bachelor of Science in Computer Science   Anticipated May 2015

University of Maryland   College Park, MD

RELATED COURSEWORK

CMSC 420 Data Structures   Spring 2014
- Learned runtime capabilities of various data storage like structures and general formulas to calculate runtime.
- Class Project (individual): Required students to read in mock geolocation and road information from XML files to generate a graph The projects goal was to give the user GPS like commands to navigate the graph base on calculations from Dijkstra's Algorithm
  - Data was stored in a quadtree structure which maintained a search runtime of $O(\log(n))$.
  - Debugged using Eclipse and J-Unit tests which handled XML input and checked the output with a canonical.

CMSC 436 Programming Hand Held Systems   Fall 2014
- Studied the Android Mobile Device platform.
  - Learned the runtime lifecycle of applications and how to interface with our own applications.
- Class Project (team): Programmed a wine and liquor reviewing/purchasing Android application in a team of three people.
  - Implemented Facebook authentication and Parse (Cloud Database) infrastructure to store product reviews, user purchase information, and discounts.
  - Effectively setup and managed Git code repository (via Github) for the group.

EXPERIENCE

Internship at Arinc   Summer 2010
- Tasked with parsing customer configuration files (Python files) with a Python script and generating human readable customer documentation page on the teams wiki.
  - Correlated a Python files method, function, and class names into which features the customer was subscribed to.
  - Wiki formatted text was generated with the features and web-page automatically generated using a terminal web-browser.
- Successfully enabled the project customer support staff, and other team members without in depth programming knowledge, determine which features a customer was subscribed to in a more succinct manner.

SKILLS
- Very familiar with Linux/Unix Operating systems (both Debian and RHEL).
- Web development espically with Django and jQuery Mobile.
- Strong in Python, Java, and Ruby
- Can work with SQL Databases

EXTRA CURRICULARS
- Founding member of the University of Maryland Mobile Application Developers (MAD) club on campus
- University of Maryland Mens DIII Club Ice Hockey team
- Programming projects using the RaspberryPi Linux computer board