Iman Abdul-Rashed

www.imangination.me

Email : ihabdulr@buffalo.edu
Mobile : +1-716-432-1973

WORK EXPERIENCE

ColdSpace LLC (Start-Up)   Buffalo, NY
Software Engineer   *Nov 2018 - Feb 2019*
- Developed a solution to autonomously extract data from the start-ups remote MySQL database using a solution written in Python that leveraged Python-Peewee ORM.
- 'Normalized' pre-existing MySQL database tables to eliminate redundancy and to mitigate scalability concerns.
- Implemented form-field validation using jQuery and PHP, and added SHA-256 passcode encryption. Created new, and rectified pre-existing, erroneous web-pages; modified with: PHP, MySQL, jQuery, and JavaScript.

UB Nano-Satellite Lab   Buffalo, NY
Flight Software Co-Lead   *Oct 2018 - Present*
- Help lead a small sub-system of roughly 20 undergraduates write-code, and unit tests in C++ that met project guidelines, and deadlines. participated in a weekly leads meetings where we went over formal Air Force & NASA documents, guidelines, and provided sub-system progress reports.
- Perform code-reviews, lead weekly work-sessions 3 times a week, and presented to the AFRL in a teleconference where myself and other leads had to justify Software implementation designs and decisions, present formal documentation, discuss software dependencies, future goals, and procedures.
- Taught team-members how to properly use version control(Git), and write formal documentation
- Wrote software that facilitated communication between the satellite's hardware ADC micro-controller, and I2C bus.

UB Nano-Satellite Lab   Buffalo, NY
Undergraduate Research Software Engineer   *Sep 2016 - Sep 2017*
- Built various web pages for the web-client of Mission Control: the web-client that will be used to send commands to the GLADOS Satellite when it is in Space. Web-pages were built using HTML, JavaScript, jQuery, and AJAX.
- Wrote simulations' tests using Flask-Unit Testing Framework, Selenium WebDriver, and MongoDB, to perform form-field validation, and user driven webclient simulations.

University at Buffalo   Buffalo, NY
Computer Science Teaching Assistant   *May 2018 - Feb 2019*
- **CSE 331 Algorithm Analysis & Design**
  - Lead of Homework Video Implementation and Design: the process of taking the Homework: Algorithmic Programming and Mathematical-Proof Questions, and creating YouTube content for students to use as help with their assignments.
  - Other Duties: Homework & Exam Grading, Invigilation, 1-on-1 Tutoring, Teaching Labs, Hosting Office Hours
- **CSE 111 Quantitative Analysis**
  - Taught primarily algorithmic and quantitative reasoning techniques and skills to labs of roughly 25-40 students.
  - Other Duties: Homework & Exam Grading, Invigilation, 1-on-1 Tutoring, Teaching Labs, Hosting Office Hours

SOFTWARE PROJECTS   *(more at github.com/ihabdulr)*

- **StopBy Android App** *(Google-Maps API, Java, Firebase NoSQL DB, Node.js)*:
  Developed through Agile methodology, this App facilitates location based meeting using Google maps, user-profiles, and a peer to peer messaging system.
- **Contact-Book Desktop App** *(JavaFX, Java)*
  Mac & Windows compatible. Supports adding images, and V-Card Export (Drag & Drop), and URL Support; users can add contacts & their corresponding info, save and load, using this desktop app.

EDUCATION

University at Buffalo   Buffalo, NY
Bachelor of Science in Computer Science; GPA: 3.00   *Aug. 2015 – Dec. 2018*

SKILLS

Preferred Lang. & Tech. - Python, C++, Java, PHP, MySQL, Android Studio, Vim, Atom, Unix, Linux
Familiar Lang. & Tech. - Android Studio, Firebase, Google Maps API, JavaScript, jQuery, AJAX, HTML, CSS, MongoDB, Selenium WebDriver, Flask Testing, JavaFX, Phaser.js