Zachary Hughes

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EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, North Carolina USA

- B.S. in Computer Science   Aug 2015 – Dec 2017
  - Coursework: Compilers, Internet Svc's & Protocols, Operating Systems, Files & Databases

Community College of Philadelphia, Philadelphia, Pennsylvania 19130

- A.S. in Computer Science   Aug 2013 – May 2015
  - Coursework: Data Structures & Algorithms, Computer Architecture, Database Management Systems
  - Certificate: Computer Programming and Software Development Proficiency

LANGUAGES AND TECHNOLOGIES

Javascript; Java; Python; PHP; Perl; HTML5; Bash; LaTeX; XML; C; CSS; MySQL
Docker; GIMP; Photoshop; Adobe Illustrator; Microsoft Office; Eclipse; Wordpress CMS; Anaconda

RELEVANT EXPERIENCE

Bright Wolf, Durham, North Carolina, USA

- Software Development Intern   Aug 2016 – Aug 2017
  - Internship extended to develop a framework that creates flexible and reusable interface components for Linked-Data using vanilla Javascript, JSON Schema, RDF and AJAX.
  - Built front-end simulation prototype to model enterprise-grade, connected IoT system using vanilla Javascript and AJAX.
  - Used Google's Closure Compiler for increased type safety and to make front-end code run faster.
  - Automated front-end build process using XML's Ant scripts.
  - Wrote dockerfile and automated creation of Docker container for compiling sphinx-doc documentation projects using Bash script.
  - Trained by experienced software developers to help in building enterprise IoT systems for numerous fortune 1000 companies using Javascript, Java, CSS, HTML5 and JUnit.

Credit Suisse, Morrisville, North Carolina, USA

- Software Development Intern   May 2016 – Aug 2016
  - 2016 Technology Summer Analyst Internship Program
  - Developed and tested Java and Perl software that extracted data from vendor API's (i.e. Bloomberg, Reuters, etc.) and stored them in central Sybase database to be utilized by all other areas of the bank.
  - Leveraged Python's Scikit-Learn and NLTK modules to find specific root causes of production software failures within the bank to better forecast future software problems before they occur.

Federation of Neighborhood Centers, Philadelphia, Pennsylvania USA

- Chief Web Developer   May 2015 – Jul 2016
  - Promoted to full-time employee to manage large non-profit website redesign fncphilly.org from beginning to end using PHP, HTML & CSS.
  - Communicated with organization staff and leaders during team meetings to provide website updates, answer questions and address concerns.
  - Identified organization content experts and delegated tasks and timelines for completion.
  - Recruited and trained successor on all aspects of the job.
  - Honored by the creation of The Zach Hughes Community Service Award to be presented annually as a result of individual initiative and dedication to his internship role.

- Web Development Intern   Feb 2014 – Apr 2015
  - Constructed new website federationnc.org from scratch, replacing outdated website with a standardized look and feel to improve user experience and enhance organization's web presence.
  - Consulted with executive staff to determine website need's and advised on current web presence best practices to deliver the best final product for the organization.
  - Coordinated with staff members individually to create 30+ new pages of unique page content.
  - Developed positive working relationships with supervisors and co-workers.

PROJECTS

MiniJava Compiler

- Coded a compiler for a subset of the Java programming language, known as miniJava. Created using Java for COMP 530 with Dr. Jan Prins.

Crowdsourced Drawing Application

- A crowdsourced web app built using Javascript, HTML, CSS, PHP and MySQL where each user draws a tiny piece of an original picture ultimately creating an original work of art once completed.