DEREK BROWN

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EDUCATION

Carnegie Mellon University School of Computer Science – May 2019
Pittsburgh, P.A.

Dual Degree Program (Concurrent)
- Masters in Information Technology Strategy
- Bachelors in Computer Science
- Minor in Psychology

Leadership Roles
- CS Student Advisory Council Member
- Highland Ambassador (Alumni Association)

EXPERIENCE

TuxLab Project | Carnegie Mellon University   April 2016 – Present
Founder and Project Leader

- Solicited a $70,000 award from a major technology company to build an educational platform-as-a-service, enabling instructors to build and manipulate Docker environments for students to perform interactive labs.

- Led a team of five developers to complete the project efficiently by utilizing AGILE and Open Source development techniques, and contribute to major projects including Meteor, Angular, Ansible and Docker.

Red Hat Inc.   May 2014 – December 2015
Corporate Strategy Analyst | Red Hat Certified Systems Administrator

- Developed a new Business Intelligence (BI) tool to analyze global sales trends using internal sales data and market forecasts, and used it to create several complex data models of future revenue which were presented to the Red Hat Board of Directors.

- Collaborated with open source contributors to create and maintain a large-scale developer dataset, which combines information from StackOverflow, GitHub, and numerous other reports to predict developer demographics and track technology adoption.

- Proposed brand and product positioning strategies amongst developer communities for Red Hat's OpenShift PaaS, and performed market research and analysis to corroborate user stories.

Duke Health Technology Solutions   May 2013 – August 2013
Systems Administration Intern

- Supported critical infrastructure systems during Duke Health's transition to EPIC electronic medical record as a Tier II Support Agent across a variety of applications and operating systems.

- Assisted in construction and migration into the Duke Medical Pavilion datacenter, including writing patches for new network infrastructure, and racking and installing servers and associated power distribution units.

Business Impact Inc.   June 2012 – July 2013
Software Development Contractor

- Business Impact is a small BI and data warehouse solution vendor, with a focus on certain niche industries (Theme Parks, Wineries, Metal Recovery, etc).

- Contracted to modernize an application for Business Impact's Microsoft SQL data warehousing solution in

PHP, enabling access to server applications from mobile and web browsers.

CERTIFICATIONS / AWARDS

Certified Systems Administrator | Red Hat
Completed examination certifying my skills in Linux administration, such as user and process management and server diagnosis and recovery.

Percy Maxim Award | Amateur Radio Relay League
Awarded to an Amateur Radio operator under the age of 21 whom improves the Amateur Radio community through leadership and Service.

Survivor Support Network | Carnegie Mellon
Member of SSN on campus, which promotes safe campus policies and advocates for victims.

RELEVANT COURSEWORK

Computer Science
10-601 | Intro to Machine Learning

15-251 | Theoretical Computer Science

15-210 | Parallel and Sequential Data Structures

Strategy, Psychology, and the Law

08-732 | Law of Computer Technology

85-211 | Cognitive Psychology

SKILLS

Development
Linux Systems Administration

Reactive Web Development
(Angular, JQuery, Javascript, SASS, CSS, HTML)

Server Development
(Node.JS, PHP, Meteor)

Database Management and Administration
(MySQL, MSSQL, MongoDB, CouchDB)

Desktop Development
(QT, GTK, Java, C, C++)

Design
UI / UX Design

Adobe Illustrator / Adobe Photoshop

Corporate Presentations and Branding

Strategy and Policy
Market Analysis

Product Design and Development

Data Science / Excel VBA / Regression

SERVICE

Volunteer SCUBA Diver | Pittsburgh Aquarium   2015 – Present
- PADI-Certified Rescue Diver
- Performs regular exhibit maintenance while interacting with sharks & penguins.

Carnegie Mellon A Cappella   2015 – Present
- President for all eight on-campus groups
- Vocal Percussionist and Tenor in the CMU Treblemakers

FEMA-Certified Crisis Responder   2009 – 2015
- Incident Command System certified first responder.
- Participated in disaster drills with state emergency personnel

The Amateur Radio Relay League (ARRL)   2010 – Present
- Public Information Officer for North Carolina
- Certified Licensing Examiner (VE)
- Extra Class Licensed Operator (W4DTB)

                                                                             2011 - 2015
Lincoln Douglas Debate Coach and Competitor
- Placed 9th Nationally in 2014 NSDA Championship
- Coached five Lincoln Douglas Debate students weekly