Erik Hoffman

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WORK OBJECTIVE

My work objective is to find a position that allows me to use my strong background in computer science and software engineering skills to work on innovative technologies and advancements. In combination with these credentials I would apply my well developed team working abilities gleaned from both my work experience and software development life cycles. I believe that both of these areas go hand-in-hand in creating successful projects.

QUALIFICATIONS

- Multiple years of programming in C, Python, Java, HTML, Javascript, C++, CSS
- Beginner to intermediate knowledge of assembly language coding and structures
- Working knowledge and experience for revision softwares like git/svn in command line and IDE use
- Experience creating a compiler from scratch, knowledge of DFA/NFA state machines for practical use
- Knowledge of command line interface (gcc, vim, linux commands, etc.)
- Experience and course knowledge on database management and creation as well as file storage structures (extendible hashing, buckets, etc)
- Strong mathematics background from minor in math (step above area of application)
- Knowledge of statistics as well as statistics involving integration/calculus

EDUCATION

UNIVERSITY OF GUELPH   Guelph, ON
Bachelor of Computing (BCOMP)   Fall 2012 – Fall 2016
Computer Science Major
Mathematics Minor

Notable Courses Completed: Data Structures, Networking and Web Development, Operating Systems, Discrete Mathematics, Combinatorics and Graph Theory, Algorithms, Security (RSA and prime mathematics), Microprocessors and Assembly Language, Theory of Computation, Databases, Artificial Intelligence, File Storage Structures and Data Retrieval.

BRADFORD DISCRICT HIGH SCHOOL   Bradford, ON
Ontario Scholar all 4 years (80+ average)   Fall 2007 – June 2011
Took Computer Science courses offered grades 10, 11 and 12

EXPERIENCE

UNIVERSITY OF GUELPH   Guelph, ON
TA for CIS1200 Introduction to Computing Course   Fall 2016 – December 2016

- Assist students with learning basics of computing: Microsoft Word, Excel, Powerpoint and Access as well as Javascript
- Grade assignments from students and host office hours/answer emails in order to provide students a cohesive learning environment

WATERWORKS POWERWASHING SOLUTIONS   Guelph, ON
Powerwasher, Professional Truck Cleaner and Safety Training   June 2013-Present
                                                                                                      Phone: 1-519-803-8144

- Train new employees to meld them into a safe, efficient and enjoyable workplace environment
- Create team based environment in order to accomplish daily goals in a timely manner to meet company standards

PROJECTS AND ACHIEVEMENTS

TRUFORM WORKOUT APP   please see: https://bitbucket.org/benbaird/truform
- Uses Arduino computer with gyroscope and accelerometer linked with smartphone app in order to measure workout data.
- My contribution were the algorithms that measured that data after it was collected by the app from the device.
- Our group set ourselves an admirable goal according to the professor and accomplished everything we set out to do.

VOLUNTEER WORK

BRADFORD PUBLIC LIBRARY   Bradford, ON
Reading Buddies Program   September 2008 - June 2009
- Assisted a child improve their reading abilities over an entire school year; measuring progress frequently with parents