# MATTHEW VAUGHAN

## Software Engineer

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## EXPERIENCE

### Independent Contractor

**Focus EduVation**   📅 10/2019 - 03/2020   📍 Woburn, MA

Offers a portfolio of services to enable online learning for businesses and universities

- Provided assessment materials, derived from lectures, for online courses educating students of information technology and/or data science.

### Associate Member of Technical Staff (Software Engineer II)

**Salesforce (by aquisition of Demandware)**

📅 10/2015 - 11/2016   📍 Burlington, MA

World leader in CRM with an inclusive corporate culture
Acquired Demandware in 2015 for $2.9B

- Utilize Java/Spring-MVC/Velocity template/HTML/JavaScript stack to implement security and platform features for a world-class SaaS e-commerce product (DemandWare) with thousands of enterprise tier clients (Kate Spade, ADIDAS, iRobot, Starbucks) and users in the hundreds of millions

### Research Assistant

**Tufts University**   📅 01/2015 - 05/2016   📍 Medford, MA

Selective "right sized" university in Medford, Massachusetts

- Design declarative portion of a nano pass compiler in SML/NJ based on Andy Keep's work
- Implement a byte code executing virtual machine with parallel and concurrent generational garbage collection in the C programming language
- Target C, JVM, LLVM, and x86_64 ASM as output languages for compilers

### Software Engineer

**International Business Machine (IBM)**

📅 01/2014 - 01/2015   📍 Littleton, MA

Monolithic employer of 300,000 with a hundred-year history gambit spanning product portfolio, among the few engaging in basic research

- Utilize Java/Dojo/HTML/JavaScript/XML stack to implement and test user interfaces for enterprise order management system (used by Target, Best Buy, Walmart, etc)

### Database Manager

**Phoenix Technologies (by aquisition of Touchstone Software)**

📅 02/2006 - 12/2008   📍 North Andover, MA

Software giant ubiquitous with BIOS
Acquired Touchstone Software in 2008 for $18M

- Keep 'DriverAgent' database of drivers up-to-date with most recently released hardware drivers for all Windows OS
- Write PHP scripts to automate process and generate reports

## EDUCATION

### B.S. Computer Science minor Mathematics

**University of Massachusetts - Lowell**

📅 2010 - 2013

GPA
**3.9** / 4.0

### Ph.D. (Incomplete)

**Tufts University**

📅 2015 - 2016

GPA
**3.8** / 4.0

## STRENGTHS

⭐ **Microservices**

Employing **docker** containerized microservices for web servers, databases, middleware, and **REST** API fulfillment

⭐ **Full Stack**

**Java**, **Python**, **Scala**, **Node.js**, and **PHP** stacks with Apache, Nginx, Tomcat, and Django servers generating **HTML**, **CSS**, and **JavaScript**

$ **E-Commerce and Order Management**

Developing features for the **DemandWare** platform (*Saleforce*) and implementing user interfaces for **Sterling** order management (*IBM*)

⭐ **Leadership**

Subcontracting as many as four additional engineers to support larger contracts

✏️ **Written and verbal communication Skills**

**164** verbal **GRE** score

📷 **"Photographic" memory**

**Perfect** scores on delayed (<0.1%) and intermediate recall (<5%) indicated by **BVMT**

## SKILLS

### Languages (years)

PHP(12)  Java(6)  C(8)  C++(5)  HTML(12)

JavaScript(12)  CSS(10)  Haskell(2)  Scheme(3)  SML/NJ(3)

Scala(4)  JSP(5)  Node.js(4)  JSON(11)  XML(11)

Python(3)

### Tools

Git  Jenkins  Bash  SSH  Virtual Box

VMWare Workstation  Linux  RDP  AWS  Docker

Kubernetes

### Databases and servers

Oracle  MongoDB  Tomcat  Apache  Nginx

OpenSMTPd  Django  Express

## SUMMARY

I *started programming as a teenager* and worked in the tech industry after high school. I *decided to return to school* to hone my skills and legitimize myself as a software engineer. I *graduated summa cum laude* with a bachelors degree in *computer science* (two courses shy of a second bachelors in *mathematics*). I was encouraged to continue my studies in *graduate school* by my professors, but had accepted a job offer at *IBM*. Where I worked for a year before attending *Tufts University* to pursue a Ph.D.

*Due to illness*, I had to leave both graduate school and my engineering position in 2016. Since making a full recovery two years ago I have freelanced to pay the bills and now wish to return to my chosen profession full time.