MATTHEW VAUGHAN

Software Engineer

📞 (561) 313-3416 @ mvaughan404@gmail.com 🔗 https://matt-vaughan.com 📍 Little River, SC

EXPERIENCE

Individual Contributor (1099)

Outlier 📅 11/2024 - Present 📍 Remote

AI company

- Write, review, correct, and improve AI generated python code
- Generate new prompts (with their responses) that challenge the current state-of-the-art AI models in the domain of software development

Independent Contractor (1099)

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

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

- Provide 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 written 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

Sterling Order Management

- 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

Acquired Touchstone Software in 2008 for $18M

- Keep 'DriverAgent' database of drivers up-to-date with most recently released hardware drivers for all versions of Windows
- Write PHP scripts to generate internal 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. I've made a full recovery and now work part time for Outlier improving AI generated python code. I seek to return to my profession full time.