

# MATTHEW VAUGHAN

## Software engineer

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## EXPERIENCE

### Software Consultant

#### App Lighting LLC

📅 12/2018 - Ongoing    📍 Manchester, NH

My personal LLC for providing software consulting and engineering services through various online platforms

- Provided efficient, timely, and cost-effective telecommunication solutions to small businesses

### Independent Contractor

#### Focus EduVation

📅 10/2019 - 07/2020    📍 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

Fifty billion dollar world leader in CRM with an inclusive corporate culture

- Implemented new features for a world-class SaaS e-commerce product with thousands of enterprise clients and users in the hundred of millions

### Research Assistant

#### Tufts University

📅 01/2015 - 05/2016    📍 Medford, MA

Selective "right sized" university in Medford, Massachusetts

- Designed declarative portion of a nano pass compiler in SML for use in a compilers course
- Implemented a byte code executing virtual machine with parallel and concurrent garbage collection in C
- Targeted C, LLVM, and x86\_64 ASM as output languages for compilers

### Software Engineer

#### International Business Machine (IBM)

📅 01/2014 - 01/2015

📍 Littleton, MA

Monolithic computer company with a hundred-year history and product offering across the spectrum that also engages in basic research

- Implemented and tested user interfaces for top tier enterprise order management software

### Database Manager

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

📅 2006 - 2008    📍 North Andover, MA

Aquired with Touchstone Software in 2007

- 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

#### University of Massachusetts - Lowell

GPA  
**3.9** / 4.0

📅 2010 - 2013

### Ph.D. (Incomplete)

#### Tufts University

GPA  
**3.7** / 4.0

📅 2015 - 2016

## STRENGTHS



#### Written and verbal communication Skills

164 verbal G.R.E score, top 33% for Harvard accepted English Ph.D. students



#### Top 2% IQ

Accepted to Mensa, indicating a 132+ IQ



#### "Photographic" memory

1/1000 or better (perfect score) delayed recall  
1/20 or better (perfect score) intermediate recall  
Eidetic memory

## PROJECTS

### Telepath

📅 10/2020 - Ongoing

Engaged in the development of both hardware and software for a moonshot communication system with broad social implications

- Hardware consisting of wearable bone conduction materials or (in theory) vocal fold augments and cochlear implants
- Runs on Android Wearable and supports a (theoretical future) ecosystem of third party apps

### Voicemail Replacement and Appointment Scheduler

📅 08/2019 - 10/2019    🔗 <https://thenshow.me>

Voicemail and appointment scheduler replaces your existing voicemail forwarding number and allows callers to schedule appointments

- Using phone forwarding codes (like Google Voice does), you replace your current voicemail number with a Twilio number
- Callers reach your mailbox with an option to "leave a message" or "book an appointment"
- You receive an SMS containing the transcript of the voicemail, or appointment details
- Integrates with google calendar

## SKILLS

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### Languages

[PHP](#)[Java](#)[C](#)[C++](#)[HTML](#)[JavaScript](#)[CSS](#)[Haskell](#)[Scheme](#)[SML/NJ](#)[Scala](#)[JSP](#)[Node.js](#)[JSON](#)[XML](#)

### Headaches I'm Used To

[CORS](#)[XSS](#)[SSL](#)[Legacy code](#)

### Servers

[Oracle DB](#)[MongoDB](#)[Tomcat](#)[Apache httpd](#)[Docker](#)[Nginx](#)[Sendmail](#)[Django](#)[Express](#)[SMTP](#)

### Tools

[Git](#)[Jenkins](#)[Bash](#)[ssh](#)[Virtual Box](#)[VMWare Workstation](#)[linux](#)[RDP](#)[AWS](#)