

# Matthew Vaughan

## Software engineer

(781) 808-1276 @ mv@thenshow.me https://thenshow.me Fort Lauderdale, FL

### EXPERIENCE

#### Software Consultant

App Lighting LLC 12/2018 - Ongoing Location

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

### PROJECTS

#### Telepath

10/2020 - Ongoing https://thenshow.me

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

- Hardware consisting of wearable bone conduction materials or (in theory) vocal fold augments and cochlear implants
- Software that uses a linear falloff to hear other by proximity (provided two way consent) or through a whitelist of friends and family with timely rule based engagement

#### 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 (888) 200-1601
- 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

### EDUCATION

#### B.S. Computer Science

University of Massachusetts - Lowell

2010 - 2013 GPA 3.9 / 4.0

#### Ph.D. (Incomplete)

Tufts University

2015 - 2016 GPA 3.7 / 4.0

### SKILLS

#### Languages

PHP Java C C++ HTML

JavaScript CSS Haskell Scheme

SML/NJ Scala JSP Node.js

JSON XML

#### Paradigms and Concepts

Object Oriented Functional REST

Declarative Full Stack

#### Headaches I'm Used To

CORS XSS SSL Legacy code

Time/quality deadline struggle

#### Servers

Oracle DB MongoDB Tomcat

Apache httpd Docker Nginx

Sendmail Django Express

#### Tools

Git Jenkins Bash ssh

Virtual Box VMWare Workstation

hyperV linux RDP

#### Cloud

Google Cloud AWS