wilsoniya@gmail.com (312) 404–0425

OBJECTIVES

- To apply my experience and expertise in software engineering and computer science to engineer valuable, lasting software.
- To learn and grow in a collaborative environment of diverse ideas.

EXPERIENCE Narrative Science

Chicago, IL

Senior Software Engineer, DevOps Team Lead

December 2015 — Present

- Reduced infrastructure complexity and risk by standardizing around a single OS
 distribution and fully specifying all host configurations using Ansible, resulting
 in a uniform and fully-reproducible infrastructure
- Designed and directed implementation of on-premise packaging of *Quill 2* SaaS platform, enabling sales of existing software to many new customers
- Designed the build, release, and deployment processes for *Quill 3* to support fast, zero-downtime deploys, continuous integration, simple hot-patching, and uniform tooling for both SaaS and on-premise installations
- As a leader, cultivated and disseminated engineering standards and best-practices to improve the quality and value of software produced by the organization

Data Engineer

December 2013 — December 2015

- Designed, implemented, and deployed analysis pipelines to transform client data into payloads usable by *Quill* natural language generation suite using *Python*, *Pandas*, and *Apache Hadoop*
- Lead development of in-house documentation toolkit during company hackathon resulting in first place award; this toolkit was later deployed organization-wide, enabling major process improvement
- Created a heavily documented object-oriented framework for composing data pipeline applications, resulting in vast productivity enhancements across the engineering organization

Esqyr

St. Louis Park, MN (Remote)

Cofounder, Software Engineer

May 2014 — Present

- As a product developer, designed a software solution for administering the sale and delivery of Bar Exam preparatory materials to law students
- Implemented a mobile-responsive e-commerce web application with an *AngularJS* front-end, backed by a *Python RESTful* API with a *PostgreSQL* relational data store, deployed with *Ansible*
- Implemented a comprehensive test suite providing >91% statement/branch coverage, comprising >50% overall SLOC

The CareGiver Partnership

Neenah, WI (Remote)

Software Engineer

October 2009 — December 2013

- Facilitated full-scale reimplementation of web application platform software from VB.NET to Python/Django
- Implemented and supported a unified E-commerce, CRM, batch distribution/fulfillment, and reporting software platform
- Realized tens of thousands of dollars in yearly savings by virtualizing server operations using commodity Linux VPS hosting
- Conceptualized and created a domain-specific guided search tool using *AngularJS-The Incontinence Product Finder*—enabling customers to more easily find and purchase product

SeatSync Chicago, IL

Cofounder, Lead Software Engineer

January 2012 — November 2013

- $\bullet\,$ Designed a P2P, location-aware ticket exchange platform including real-time chat
- Implemented and extensively documented an HTTP application server in *Python*
- \bullet Designed and implemented Android client software; directed development of iOS client software
- Conducted product viability analysis using scikit-learn and matplotlib

EDUCATION University of Wisconsin, Madison

Madison, WI

Bachelor of Science, Computer Science

May 2009

- Notable courses include Computer Graphics, Operating Systems, Compilers, Bioinformatics, and Linear Algebra
- Worked at Internet Scout Research Group as a software developer; created custom CMS software for UWAMIC consortium using PHP

PROFESSIONAL Side Projects

INTERESTS

- Created an audio spectrum visualizer using Rust; implemented the Cooley-Tukey FFT algorithm, Hamming window function, and a pulseaudio foreign function interface
- Created a WebSockets server implementation in Rust along with a simple chat server and web front-end
- Implemented a Quadtree-based spatial image storage mechanism allowing logarithmic time storage and retrieval of application data

Continuing Education

- Earned a statement of accomplishment from *Coursera* for Cryptography I taught by Dan Boneh
- \bullet Earned a statement of accomplishment from Coursera for Machine Learning taught by Andrew Ng