anjana sofia vakil

language technologist and software developer

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skills

proficient
    Python
    Git
comfortable
    JavaScript
    HTML/CSS
    Mercurial
familiar
    Java
    Groovy
    C#
    Subversion

languages

native
    English
advanced
    French
intermediate
    German
    Italian
beginner
    Spanish

selected projects

Net-Set | **A networked multiplayer card game for the browser**   github.com/vakila/net-set
- Developed single-page web app using Node.js, Express, and socket.io, with Mocha for TDD
- Built app backend using functional programming and persistent data structures (via Mori library)

Kimi | **A programming language that keeps it minimal**   github.com/vakila/kimi
- Designed Lisp-like toy programming language with minimal feature set (see project README)
- Built interpreter and REPL interface in Python 3 using TDD (unittest, doctest)

de-stress | **A prototype pronunciation training tool**   github.com/vakila/de-stress
- Developed Groovy/Grails web app to automatically detect pronunciation errors
- Refactored JSnoori, a Java speech analysis library used in de-stress's backend

Deeva | **A depot of evolving avatars**   deeva.mmci.uni-saarland.de
- Led team of 3 in designing/developing Python/Django web app to client specifications
- Implemented genetic algorithm for evolution of 3D avatars to depict personality traits

lex4all | **Pronunciation lexicons for any low-resource language**   lex4all.github.io/lex4all
- Led development of graphical Windows desktop app in C# with VisualStudio
- Implemented algorithm for automatic pronunciation discovery

experience

05/2016–	**Mozilla** | **Outreachy Intern, Engineering Productivity**	Remote

- Write new unit tests for the Marionette Python test runner using Pytest
- Refactor the runner's base classes and methods as needed to facilitate testing
- Improve command-line interfaces for running Marionette-based tests

09–12/2015	**Recurse Center (f.k.a. Hacker School)** | **Recurser**	New York, NY, US

- Participated in full-time self-directed programming retreat
- Contributed to open-source projects such as Zulip and the HTML Standard
- Pair-programmed to implement algorithms in Python and JavaScript

2013–2015	**Saarland University** | **Research Assistant, Phonetics**	Saarbrücken, DE

- Led student annotation of speech corpus using SVN for version control
- Built static project website in HTML, CSS, and JS/jQuery (www.ifcasl.org)

2011–2012	**Royal Melbourne Institute of Technology** | **English Instructor**	Hanoi, VN

Taught full-time academic English classes to post-secondary students

2008–2010	**Kaplan International** | **English Instructor**	San Francisco, CA, US

Taught general English and specific subjects (e.g. TOEFL) to adults

2007–2008	**Meltwater News** | **Sales Consultant**	San Francisco, CA, US

Signed new clients for SaaS firm; worked with engineering to meet client needs

education

2015	**M.S. Language Science & Technology**	Saarland University, Saarbrücken, DE

- Studied e.g. speech recognition, NLP, machine learning, software engineering
- Presented original research and software at international conferences

2007	**B.A. Philosophy**, French minor	University of California, Berkeley, CA, US