Avi Romanoff

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Technical Skills

- Proficient in Python, Java, Vala, JavaScript, CoffeeScript, Jade, HTML, CSS, BASH
- Extensive experience in open source and distributed development
- Extensive experience creating full-stack web applications, including Node.js and Django
- Extensive experience with modern GNU/Linux desktop and server environments

Software Development Experience

Please visit my personal website (above) for additional projects and details.

Keeba Homework Website: (keeba.jbha.org)   Fall 2011 - *Present*

- Reverse-engineered school's existing homework website and created scraping API
- Designed and coded complete reimagination of web UI focusing on responsive design and real-time interaction, dramatically increasing student productivity
- Architected and built highly concurrent backend to interface with existing website and expose internal APIs to web clients on desktop and mobile
- Since launching in June 2012, 90% of the student body is using Keeba to track 55,000+ assignments across 2,000+ courses

Veritas Social Network: (veritas-me.com)   Summer 2012

- Recognized desire for the 1,000+ students attending 2012 Harvard Summer School (high school and college) to connect with other students for socialization and collaboration on school work
- Built real-time online social network with integrated group chat, featuring time-saving capability of automatically connecting students by class and dorm
- Within 4 weeks 71% of the 1000 students had signed up to use Veritas

Ubuntu-based Switchboard Settings Center: (launchpad.net/switchboard)   Winter 2011 - Summer 2012

- Identified need for coherent and cohesive app and API for exposing system configurations (e.g. device and appearance settings) on Ubuntu-based systems
- Created API to enable developers to build modular interfaces for easy configuration of their software and hardware peripherals
- Received full sponsorship (all expenses paid) to attend the 2011 Ubuntu Developer Summit in Orlando, Florida to present my work on Switchboard
- Switchboard has been translated into over 50 languages and currently ships with elementaryOS Luna (Ubuntu-based), which has been downloaded 275,000+ times since Spring 2012

Lingo Dictionary Application: (launchpad.net/lingo-dictionary)   Summer 2011 - Summer 2013

- Identified need for easy to use, fast, and feature-rich dictionary program for Linux desktops
- Built application for Ubuntu-based Linux desktops featuring search suggestions, search history, bookmarking and pronunciation guides using Wordnik dictionary API
- Lingo shipped with elementaryOS Jupiter, which has been downloaded 200,000+ times since its launch in 2011
- In recognition of this, was voted in to serve on Executive Council of elementary Project

Professional Experience

Research & Development Intern
7/2013 - *Present*

CadenceWatch.com, Philadelphia PA
Express your identity with custom-designed watches at factory-direct prices

- Researched responsive, mobile-first, and native client design strategies for mobile e-commerce
- Designed and implemented modern responsive interface for Magento e-commerce framework
- Authored and presented 25-page research report combining empircal, academic, and survey data related to user experience and business objectives to evaluate mobile e-commerce strategies and provide reccomendations for their implementation

Web Software Developer
6/2011 - 12/2012

LunchBiz.com, Jenkintown PA
Hand-selected local restaurants delivered to your workplace

- Rewrote entire server backend in Python using the Django web framework in order to decrease costs and enable the business to more effectively scale with increasing demand
- Audited and documented security vulnerabilities in previous PHP codebase for risk mitigation
- Re-architected account system and simplified administrative interface to increase productivity and save time

    Technologies Used: Python, Django, JavaScript, HTML, CSS, SQL, JSON, Google Maps API

Teaching Assistant / Jr. Network Administrator
9/2009 - 5/2010

Suburban Jewish Community Center, Havertown PA

- Designed and implemented 8-box network of eMac computers for student use
- Created print and file sharing Intranet
- Cloned master desktop and software to reimage new machines

    Technologies Used: Disk imaging, Mac OS X, Samba, CUPS, AFP

Education

- Rising **12th grade honor student** at Barrack Hebrew Academy, Bryn Mawr, PA
- Completed 7-week Intensive Introduction to Computer Science Using Java course at **Harvard University** for 8 college credits, Cambridge MA, Summer 2012
- Completed 8-week course in C++ at iD Tech Camp, **Villanova University,** Villanova PA, Summer 2009
- **Self taught** in Python, Vala, and JavaScript programming languages

Extracurricular Activities

- President of Student Body Government (2013-2014)
- President of Class in 9th, 10th, and 11th grade (2011-2013)
- Captain of varsity TEAMS (Tests of Engineering Aptitude, Mathematics, and Science) club
- Founded BAIT (Barrack Academy Information Technology) computer and technology club

Awards & Honors

- Xerox Award for Innovation and IT (2013)
- Student of the Week in The Main Line Times (September 26, 2012)
- First Place for Division in National TEAMS Competition: *Engineering a Secure Cyberspace* (2013)
- First Prize for Prose in the Mordechai Anielewicz Creative Arts Competition (2013)
- Essay Winner for Montgomery Country District Attorney Leadership Essay Contest (2013)
- Second Prize in 9th/10th grade Barrack Essay Contest (2012)