

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: (<http://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 which dramatically increases student productivity
- Architected and built highly concurrent backend to interface with existing website and expose internal APIs to web clients on desktop and mobile via WebSockets
- Since launching in June 2012, 90% of the student body are using Keeba to track 55,000+ assignments across 2,000+ courses.

HWorks Initiative: (<http://hworks.org>)

Winter 2013 - Present

- Identified need for student developers from around the world to collaborate on the design and development of homework management software in their respective schools
- Created HWorks as an online hub for collaboration and discussion of next-generation digital homework management systems
- Released and licensed Keeba as fully open-source ahead of HWorks launch in 2013

Veritas Social Network: (<http://veritas-me.com/>)

Summer 2012 - Fall 2012

- Recognized desire for the 1,000+ students attending the Harvard Summer School to connect with other students to socialize and collaborate on school work
- Scraped Harvard Summer School academics portal with Python script to compile list of all Harvard courses and rooming assignments
- Built real-time online social network and instant messaging protocol to automatically connect students by class and dorm and allow them to chat and collaborate in real-time
- Within 24 hours of its launch in mid July, more than 100 students had signed up to use Veritas

Switchboard Settings Center: (<https://launchpad.net/switchboard>)

Winter 2011 - Summer 2012

- Identified need for coherent and cohesive app and API for exposing system configurations on desktop Linux
- Created and documented native GTK+ application, API, and plug-in framework to allow developers to build modular interfaces to configure their software and hardware peripherals
- Sponsored 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.

Professional Experience

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
- Audited and documented vulnerabilities in previous PHP codebase
- Rearchitected account system and admin interface

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

Teaching Assistant / Jr. Network Administrator (unofficial)

9/2009 - 5/2010

Suburban Jewish Community Center, Havertown PA

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

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 Grade: B+
- Completed 8-week course in C++ at iD Tech Camp, **Villanova University**, Villanova PA, Summer 2009
- **Self taught** the Python, Vala, and JavaScript programming languages via various Internet tutorials and documentation.

Extracurricular Activities

- Elected President of Student Association (2013-2014)
- Elected 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 (2013)
- First Prize for Prose in the Mordechai Anielewicz Creative Arts Competition (2013)
- Essay Winner for Montgomery County District Attorney Leadership SA Contest (2013)
- Second Prize in 9th/10th grade Barrack Essay Contest (2012)