# David A. Krauth

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## Summary

Software developer specializing in full stack web development using Python, Django, and Javascript. Available immediately

## Skills

**Languages:**
Python, Javascript, C/C++, SQL **Environments:**
Mac OS X, Linux (Ubuntu/Debian, RHEL/CentOS), AWS **Web Servers:**
nginx, Apache, WSGI / uWSGI / Gunicorn **Frameworks:**
Django, Django Rest Framework, Vue.js, Backbone, Bootstrap **Data:**
MySQL, PostgreSQL, Memcached, Redis **Tools:**
git / GitHub, Docker, pytest, tox, Celery, Jira, Jenkins, Mercurial **Mark-up:**
HTML(5), CSS(3), SASS, XML, JSON, reStructured Text, Markdown

## Work Experience

**The Atlantic Monthly Group** *· Washington, DC / Kaneohe, HI***Senior Platform Developer** *· 4/2018 - 7/2021
Develop and maintain the Atlantic's CMS and web platform*

* Upgrade CMS from Django 1.8 to Django 1.11 and. Django 2.2
* Upgrade Django-based Atlantic open source repositories from Django 1.8 to Django 1.11, 2.2, 3.2
* Upgrade all Python repositories from 2.7 to 3.7
* Implemented multiple scenario Django admin interfaces and DRF API for sponsor content backend
* Created Facebook news interface
* Assisted in static content and media from server file systems to AWS
* Initial Docker-ization of customer facing subscription services

**Artemis Consulting (Library of Congress)** *· Washington, DC***Lead Python Developer** *· 11/2017 - 4/2018
Design and implement internal tools for digital data ingest*

**Open Therapeutics, LLC** *· Washington, DC / Cincinnati, OH***Lead Software Developer and Director of Software Development** *· 6/2016 - 6/2017
Architect and principal contributor to the Therapoid platform.*

* Designed tools, services, and interfaces for open source, collaborative bio-technologists and life scientists.
* Incorporated various 3rd party API's for authentication, annotation, and publishing services.

**Self Employed** *· Maastricht, NL***Web Development Consultant** *· 3/2014 - 6/2016
Development of major conference web sites and portals.*

* Developed web portals for the Univeristy of Maastricht departmental conferences, handling registration, enrollment, and scheduling services.
* Authored the Pension Communication web portal for the U. of Maastricht Deportment of Finance.

**Real Digital Media** *· Portland, ME / Seminole, FL***Sr. Software Engineer** *· 5/2011 - 3/2014
Front-end developer and designer for cutting edge enterprise SaaS platform for managing large scale digital signage delivery networks.*

**CashStar, Inc** *· Portland, ME***Sr. Software Engineer** *· 2/2009 - 5/2011
Employee number 7 during early start-up phase, helped to grow CashStar from 3 to 90+ merchant accounts and 40+ employees.*

* Developed skin-able eCommerce web sites for digital gift cards for top industry leading brands, e.g. https://homedepot.cashstar.com/ and https://williams-sonoma.cashstar.com/ (for extensive list see http://www.cashstar.com/egift-center/).
* Wrote internal customer service applications with integrations for proprietary, predictive fraud and risk analysis services to minimize credit card fraud.
* Designed extensive, patent-pending promotional and incentive packages for seasonal marketing campaigns.
* Developed analytical and reporting mash-up web applications for client dashboard services.

**Somatic Digital** *· Manchester, NH***Lead Software Architect and Developer** *· 11/2004 - 1/2009
Co-founder and Vice President of a technology start-up, responsible for all developmental aspects of the Touch User Interface (TUI) technology, which naturalizes human/computer interaction by providing the conduit through which multimedia content is accessed through non-traditional means, such as paper.*

* Managed and implemented all technology R&D, prototypes, and IT infrastructure to position the company to successfully raise over $1M in angel and venture funding.
* Wrote the primary desktop client applications using Python and the wxPython GUI framework, deployed to both Mac OS X and Windows platforms.
* Designed and implemented the somaticdigital.com and etouchbook.com websites using the Django web framework and the jQuery javascript library.
* Authored the TUI XML-based, content-mapping schema used to connect areas of the pages of the TUI-enabled book to digital content, websites, applications, and proprietary subscription services.
* Inventor / co-inventor named on 5 patents.
* Contributed to the success of Somatic Digital's strategic partnerships with NASA and the National Federation of the Blind.
* Authored the web accessible site http://NFBShareBraille.org/, allowing blind users to exchange braille publications through the USPS Free Matter for the Blind.
* Crafted the standardized TUI Icon library for entry into the INCITS V36 technology standards (http://v36.incits.org), as well as gain Somatic Digital's entry onto the committee.

**OASIS** *· Billerica, MA***Sr. Web Developer** *· 10/2006 - 8/2007
Technical Services member*

* Design and implementation of the OASIS Library, a document management system for the OASIS standards workflow process, featuring expensive metadata capabilities based upon Dublin Core (DCMI). Developed using Django, MySQL, Apache 2.2 and Debian Linux.
* Maintenance and enhancement of the Zope-based KAVI platform.

**Microsoft** *· Redmond, WA***Software Development Engineer / Test** *· 9/2004 - 3/2005
Visual Studio 2005 Team Suites member*

* Architected the core testing framework for the Team Suites integration with Visual Studio 2005, MS Excel and MS Project using C#.NET 2.0
* Supervised the daily outsourcing of test case development to Microsoft's contracting agents in China
* Enhanced the daily test automation environment using Python 2.3

**Software Development Engineer / Test** *· 9/2003 - 9/2004
Windows 2003 Server team member for Microsoft UDDI v3*

* Implemented an XML-driven test harness using C#.NET to automate web browser UI and Windows Server 2K3 MMC test cases
* Wrote detailed test cases for the UDDI SOAP interface using XML and XSLT
* Automated the testing environment using Python 2.3

**Honeywell** *· Clearwater, FL***Software Engineer** *· 1/2003 - 6/2003
Team member for the Ballistic Missile Range Safety Technology system (staffed through Manpower)*

* Implemented a quadratic digital smoothing filter for radar data ingest
* Created an XML-driven, automated build system in Python 2.2 and C++, using MFC, SMTP, PVCS, MS Word integration

**Lead Software Test Engineer** *· 7/2002 - 1/2003
Team lead responsible for implementing white-box testing for a multithreaded, cross-platform, software library written in C++, used as the foundation for the BMRST system*

* Designed extensive test code scenarios for a string class with regular expression interfaces; TCP/IP socket and listener interfaces; templatized containers (deques, maps, vectors); threading devices (semaphores, mutex, critical sections)
* Wrote a C++ language parser in Python to extract class and method declarations for generating skeleton test code.

**Teltronics** *· Sarasota, FL***Senior Software Engineer** *· 6/2000 - 7/2002
Lead developer responsible for the design and development of the Site Event Buffer (SEBea), a remote hardware device used to monitor legacy telecommunication devices via data collection, alarm monitoring and event reporting.*

* Designed with UML and implemented with C++ a customized RTOS and application layer embedded in the Motorola PowerQUICC 860T
* Refactored and extended the Python 1.5.2 interpreter as a thread-safe, embedded code base within the RTOS application layer
* Authored a command line shell for remote telnet or serial interface
* Engineered the event detection process by which input is read, analyzed, and converted from a byte stream to meaningful records of information to be cached into a tagged data format for remote retrieval
* Contributed to the SEBEa MFC emulator application

**IBM** *· Tampa, FL***Software Engineer** *· 3/1999 - 6/2000
Developed dial-up and broadband connectivity software for Windows and Macintosh*

* Contributed to the development the dialer application, specializing in Windows dial-up networking with RAS, TCP/IP, PPP, VPN, and PPTP

**Andersen Consulting** *· St. Petersburg, FL***Software Consultant** *· 8/1997 - 3/1999
Lead developer for the developmental tools team for a full lifecycle, large scale, client/server application package*

* Wrote stand-alone MFC applications and web-based services for the optimization and enchancement of the development and deployment environments

**Robbins Engineering** *· Tampa, FL***Software Developer and Trainer** *· 11/1996 - 8/1997
Development, deployment, and training of multiple engineering software packages*

* Programmed designer roof engineering applications

**Ridgway Roof Truss** *· Gainesville, FL***Programmer/Engineering Systems Analyst** *· 2/1995 - 10/1996
AutoCAD and IT specialist for roof truss engineering firm.*

* Developed custom C++ and AutoLisp tools for analysis of engineered roof systems

## Education

Daytona Beach Community College, Daytona Beach, FL, A. A.
University Of Florida, Gainesville, FL

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