Brian H. Rutledge
Software Solutions
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I have been writing and using software to solve problems for over 15 years. I was an embedded software engineer for three years, then left the industry in 2005 to pursue people-oriented work. I was fortunate to find it at a large bike shop, where I enjoyed the flow of a variety of roles, from selling bikes to administering software. In 2014, I made the switch to professional web development, with a focus on exercising my skills with like-minded people working to speed the adoption of renewable energy. In my free time, I have expanded my software development skills by building responsive websites back-to-front. I enjoy studying software systems and explaining how they work.

Skills

Adapting, Analyzing, Assimilating, Coding, Communicating, Debugging, Editing, Explaining, Programming, Researching, Teaching, Testing, Troubleshooting. **Software Development:** Python, JavaScript, SQL, Git, Linux/Unix, Data Engineering, Test-Driven Development, Virtual Machines, Containers. **Web Development:** Django, Flask, REST APIs, Celery, Selenium, JQuery, Backbone, D3, Mapping, HTML, SASS, CSS, Markdown, Deployment, Responsive Design, Typography, Photography.

Experience

Developer
2014-Present

EnergySage, Inc.
Boston, MA

- Full-stack development for an online marketplace for solar panel installation, built on Django and deployed on AWS
- Designed, developed, and maintained a Django application for pushing consumer data to solar installer CRMs, e.g. Salesforce
- Integrated with the HubSpot API to sync our user database, enabling marketing and sales workflows
- Provided on-demand and periodic data exports for staff, partners, installers, and media using SQL, Pandas, and Jupyter Notebook
- Developed a revamp of the core consumer experience of comparing quotes online, using Backbone and JQuery
- Developed the primary registration page for consumers, using Pandas and Leaflet
- Developed an interactive map of solar data for states, using Pandas and D3
- Built HubSpot workflows, emails, and landing pages to automate business processes and support marketing efforts
- Integrated the Django CMS project to streamline content creation and edits, and instructed staff on its usage
- Regularly participated in and influenced project planning and design discussions
- Provided tech support for networking, phones, and Google Apps

Full Stack Web Developer
2006-Present

Freelance

- Built my band's website using Django
- Built a web application using Flask to transform tab-delimited files into searchable and sortable tables, enabling a small retailer to quickly analyze sales reports
- Built my personal website with the Pelican Python framework
- Developed a PHP framework for quickly building brochure websites
- Built single-page brochure websites with responsive layouts
- Deployed websites to Linux shared hosting services, installing software as needed

IT Operations Manager
2007–2014

Belmont Wheelworks
Belmont, MA

- Built and managed the business website using the SmartEtailing CMS, and developed a custom front-end with CSS and JavaScript
- Wrote Python scripts to synchronize the store's inventory to the website catalog, resulting in increased customer inquiries and foot traffic
- Wrote SQL queries and Python scripts to generate custom reports of customers and inventory, streamlining tasks such as mailing list generation and barcode management
- Developed a physical count procedure and programmed a handheld data collector to improve inventory accuracy
- Built a Squarespace website for the in-house frame builder
- Configured and managed the MindBody web application to replace a paper binder for appointment booking
- Configured and managed Google Apps for email, calendars, and documents
- Maintained a Google Site for the company intranet, documenting numerous procedures and policies, and enabling easy viewing of schedules and calendars
- Managed a major upgrade of the CounterPoint retail management software
- Established and managed the relationship with an IT consulting firm to ensure timely and competent network management for all locations
- Provided IT vendors with on-site troubleshooting, hardware installation, and new project scopes, resulting in expedited solutions to problems and fewer billable support hours
- Provided staff training and support for all software systems
- Designed web and print forms for collecting customer questions and information

Bicycle Fitter, Buyer, Salesperson
2006–2014

- Installed, replaced, and adjusted bicycle components and instructed clients on pedal technique and posture, resulting in a more comfortable, efficient, and safe experience
- Completed bicycle fitting certification programs from SBCU, SICI, and Retül
- Managed customer relationships by email, phone, and appointment
- Ordered and stocked electronics, saddles, nutrition, and media
- Trained staff and customers on electronics

Buyer, Sandwich Maker, Barista
2005–2006

Darwin's Ltd.
Cambridge, MA

- Ordered and stocked raw ingredients and paper goods
- Prepared and served beverages and sandwiches

Software Engineer
2001–2005

Applied Innovation Inc.
Dublin, OH

- Assumed sole development responsibility for a troubled network device, turning it into a major source of income
- Designed, developed, and documented features for network devices using 68k Assembly, C, C++, Java, and Python
- Designed and developed a Perl web application for automated regression testing of network devices
- Completed software releases as sole developer and as part of a team
- Diagnosed and addressed field issues in conjunction with customer service

System Operations Center Operator, Lab Consultant
2000-2002

The Ohio State University
Columbus, OH

- Responded to help requests in a Unix and Windows environment
- Designed and developed a graphic FAQ editor in Java
- Provided programming and Unix assistance to students in labs of 50-100 computers

Grader
1999-2000

- Graded papers for an introductory software development course in C++
- Provided guidance for 35-40 students during and outside of class

Education

Bachelor of Science, Computer & Information Science
2002

The Ohio State University
Columbus, OH

- Graduated Cum Laude with Honors in the Liberal Arts, 3.640 GPA