Brandy Sandrowicz

Software Developer

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⬡ *bsandrow*

Education

Aug 2005   **Bachelor of Computer Science in Engineering**, *University of Michigan*

Experience

2018–2023   **Software Developer**, *d1g1t Inc.*, Toronto
Financial Software for Money Management Firms

» Built a risk level reporting system for money managers with the support of company's financial engineers.
» Worked on both the Python backend and the React front-end systems.
» Built and maintained a system that capable of rebalancing 1000's of financial accounts to match user specified parameters while taking into account various trading restrictions.
» Built and maintained a system for managing trades and batches of trades to be sent to trading systems for execution including processing allocation on receipt of trades.
» Maintained a system that managed transactions for all customer accounts and built them into various levels of reporting for both money managers and their clients.

Technologies Used: Docker, PostgreSQL, MongoDB, ElasticSearch, Python, AWS, Django, Django Rest Framework, Celery, Redis, React.js, JavaScript

2013–2018   **Lead Software Developer**, *Sowingo.com Corp.*, Toronto
Dental Supply Management and Marketplace

» Built an eCommerce platform allowing sales from 3rd party vendors from the ground-up.
» Built an inventory management system with specialization in tracking oral surgery supplies from scratch.
» Built single page app administration system site admins and 3rd party vendors.
» Built a custom PDF generation system for creating shelving labels.

Technologies Used: PostgreSQL, MySQL, Amazon Web Services, Flask-RESTful, Python, Flask, Nginx, Ubuntu Linux, ElasticSearch, SQLAlchemy, Stripe, AngularJS 1.x, GulpJS, GruntJS, Angular-Material, HTML, CSS, JavaScript, EmberJS, Bootstrap, LESS, Sass, git, TravisCI, py.test

2008–2012 **Software Developer**, *Rentrak Corp.*, Portland and Toronto
Media data analysis and auditing

» Developed cross-platform application in Groovy to interact with POS systems and transmit transaction information back to central server.
» Developed internal CRM to facilitate multiple business units' interactions with customers, including an email gateway, threaded comments, and porting of legacy CRM data.
» Maintained legacy internal applications (including GUIs in Java 1.3, and 'green screens' in C), including adding new features as required.
» Ported competing system (obtained via acquisition) within existing systems, including data import, reporting system changes and data warehousing.
» Optimized database access as volume passed thresholds that reduced performance to unacceptable levels.
» Implemented marketing materials admin interface in HTML/JS, including drag-and-drop sorting.
» Created internal release tool on top of git with Python/Django.

Technologies Used: Linux (CentOS), MS Windows, Unify, Oracle, PostgreSQL, Java, C, Groovy, Perl, Python, Pro*C, Vim, Emacs, Apache, Nginx, Django, SQL*Plus

Languages

	Level	Skill	Years	Comment
Language:	■■■■□	Python	10	*Worked with Python building web APIs for JavaScript front-ends in addition to multiple layers of infrastructure supporting these APIs.*
	■■■□□	JavaScript	10	*Worked on front-end apps using both AngularJS 1.x and ReactJS.*
	■■■■□	Perl	4	*Worked with Perl 5.8/5.10 backends with some amount of usage of Moose.*
	■■□□□	C/C++	4	*Worked on legacy C/C++ applications written in the 90's mostly for maintenance purposes.*

■□□□□ basic knowledge   ■■■□□ extensive project experience
■■□□□ intermediate knowledge with some project experience   ■■■■□ deepened expert knowledge
    ■■■■■ expert / specialist

Other

○ Organizer for Pycon Canada 2013, 2015, and 2016