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# Henry Harper Rogers II

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## EXPERIENCE

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***SugarCRM, Inc. • Cupertino, CA • July 2012 to present***

### **Information Visualization Lead Engineer**

As lead developer for the core business charting library, I work with product managers and engineering staff to design and implement enhanced information visualization and reporting features for the Sugar Customer Relationship Management (CRM) web and mobile applications.

- ♦ developing a chart image generation microservice for embedding PNGs in scheduled PDF reports that implements open source API standards (Swagger, Protobuf, gRPC, Docker, k8s)
- ♦ designed and developed the Sucrose charting library for Sugar7 web and mobile applications (D3)
- ♦ open sourced the charting library as an NPM package utilizing ES6 module bundling (Sucrose.io)
- ♦ designed, prototyped and implemented chart drill through capability for reports and chart dashlets
- ♦ produced wireframes and interactive demos for reporting and data visualization concepts (Invision)

### **Senior Javascript UI Engineer**

As the lead developer in UI/UX and then as an Engineering Agile team member, I develop and improve UI components in a complex MVC web application. I also provide technical web development solutions across engineering, support, professional services, marketing and sales departments.

- ♦ translated a UI design into a CSS framework for a complete Sugar7 redesign (Bootstrap, LESS)
- ♦ engineered CSS optimizations by developing a unit test framework and metric reporting tools
- ♦ worked across teams supporting the application of the CSS framework in Javascript UI components
- ♦ coordinated and developed improvements in core application accessibility
- ♦ employee core values award

### **Patents**

- ♦ Universal Rebranding Engine  
Issued Jun 6, 2016 - US 9672197
- ♦ Décomposition et Séquençage de Graphiques Pour Dispositifs à Affichage Limite  
Issued May 6, 2015 - FR FR3020155
- ♦ Persistent Tracking Of A Work Space Arrangement Of A CRM Application Through A Web Browser  
Filed Apr 22, 2015 - US 20160313880
- ♦ Customer Lifecycle Visualization Tool  
Filed Apr 19, 2015 - US 20160307219
- ♦ Sankey Assisted Business Opportunity Task Assignment In A Customer Relationship Management (CRM) Solution  
Filed Aug 26, 2014 - US 20160063409
- ♦ Chart Decomposition And Sequencing For Limited Display Devices  
Filed Apr 18, 2014 - US 20150302619

## ***SRA International • Research Triangle Park, NC • 2010 to July 2012***

### **Senior Software Engineer • National Institute of Environmental Health Sciences**

Worked closely with senior research staff and scrum team members to engineer, develop and maintain institute and departmental web applications and data management systems.

- ♦ enhanced the UX of a science impacts tracking application including advanced UI and reporting components (Adobe Flex)
- ♦ implemented an interactive CIO dashboard for visualizing and reporting on key performance metrics as part of a small team of staff and consultants (Cognos 8)
- ♦ developed a project research and disease categorization reporting application as an integrated project data management web application (Cognos 8, Pentaho ETL, ColdFusion 9, Oracle 10g)
- ♦ employed interface-flow diagrams and interactive UI mockups as an integral part of the web application design process (Balsamiq)
- ♦ developed custom Javascript UI components and code libraries to extend highly interactive UI designs from semantic HTML (jQuery)
- ♦ provided technical consulting in web analytics and conducted historical data analysis in support of the project team (Analog, Python, WebTrends)
- ♦ performed an institute-wide Subversion server upgrade with LDAP authentication and a two-way integration with a JIRA issue ticket tracking system (Bash, Python)

## ***RTI International • Research Triangle Park, NC • 2000 to 2010***

### **Research Programmer/Analyst • Office of Communications**

Successfully developed and integrated institute-wide information systems on the intranet and extranet, in collaboration with departmental managers and technical staff.

- ♦ large document collection, online data repository and website indexing and search services with multilingual support and REST interfaces
- ♦ email list service integration with the marketing content management system (SOAP, Lyris)
- ♦ digital asset management for use by corporate photographers (Canto Cumulus)
- ♦ web analytics and SEO optimization (WebTrends, Google Analytics)
- ♦ integrated e-commerce gateways with internal transaction processing finance systems (PayPal)
- ♦ provided mentoring to junior developers and technical assistance to cross-departmental teams
- ♦ informational kiosks with remote content updating

### **Webmaster and Lead Developer • External Marketing Website**

Developed and maintained the external marketing website ([www.rti.org](http://www.rti.org)) as the Office of Communications' lead programmer and analyst including all web application programming and UI engineering in close consultation with the web management team.

- ♦ architected and implemented content management systems
- ♦ developed information visualizations, social media sharing tools, and web analytics
- ♦ analyzed taxonomies and information architectures in a complex content ecosystem
- ♦ syndicated corporate content across internal and external channels (RSS, SOAP, REST)
- ♦ integrated corporate data resources to create rich internet applications
- ♦ launched multiple site redesign cycles as lead programmer
- ♦ translated and adapted visual designs throughout all content templates
- ♦ applied corporate graphic design standards across all web projects
- ♦ programmed and analyzed marketing/SEO and customer survey campaigns

### **Technical Project Manager • RTI Publications Database**

Programmed and managed a research publication reference information management system in collaboration with communication team members.

- ♦ automated diverse data mapping processes including imports from PubMed (Reference Manager)
- ♦ implemented multiple public and private access portals, publication bulletins and email newsletters
- ♦ coordinated technical development team, cross-functional planning groups and consultant services
- ♦ developed information architectures, research ontologies and knowledge management applications

### ***NC Solar Center, NC State University • Raleigh, NC • 1993 to 2000***

#### **Policy Analyst • National Database of State Incentives for Renewable Energy**

Managed a Department of Energy funded project to research and promote all utility, state and local government renewable energy incentives, loans and grants.

- ♦ oversaw the research, analysis and authoring of two staff policy researchers
- ♦ presented policy research papers at national renewable energy conferences
- ♦ researched and documented policies through multiphase surveys and online research
- ♦ produced comprehensive national reports for consumers and industry
- ♦ developed a public online policy website for policy search, summary data and resource links

#### **Solar Energy Extension Specialist • Passive Solar Buildings Program**

Performed public outreach and professional education in passive solar architecture, environmental building design, green building technology, energy analysis and daylighting simulation.

- ♦ programmed the Center's first information website and developed intranet information databases
- ♦ coordinated statewide seminars and solar home tours
- ♦ led professional training workshops and produced technical publications
- ♦ facilitated conferences in cooperation with local, state and national professional organizations and the agriculture and industrial extension services

#### **Program Manager • Energy Efficient Affordable Housing Program**

- ♦ edited construction specifications, designed home plans, and produced homeowner information kits
- ♦ organized affordable home energy efficiency construction training events for volunteer organizations and local agencies

### ***Innovative Design, Inc • Raleigh, NC • 1986 to 1992***

#### **Project Manager, Designer & Energy Analyst**

- ♦ designed, drafted and managed various solar energy, residential and commercial projects
- ♦ conducted the simulation and analysis of thermal energy conservation and daylighting strategies for educational facilities

### ***US Army Corps of Engineers • Heilbronn, Germany • 1980 to 1983***

#### **Sergeant • 237th Combat Engineer Battalion, 7th Brigade, 7th Army, USAREUR**

- ♦ Squad Leader, Battalion Courier, US Army Achievement Medal, Good Conduct Medal

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## EDUCATION

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### ***eDx • Online Courses • 2015 to present***

- Introduction to Computer Science and Programming Using Python - Verified certificate from MITx
- Introduction to Big Data with Apache Spark - Verified certificate from UC Berkeley

### ***NC State University • Raleigh, NC • 1984 to 1989***

#### **Bachelor of Environmental Design in Architecture • College of Design**

- Arcosanti Scholarship - construction workshop in Prescott, Arizona
- Pella Prize for Foreign Study - design studio in Lefkosia, Northern Cyprus

### ***North Carolina Outward Bound • Morganton, NC • 1980***

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## TECHNICAL

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### ***Skills***

Web Application Development • Information Visualization • JavaScript UI Development • User Interface Engineering • User Experience • Visual Design • 3D Modeling • Art & Design • CSS Frameworks • MVC Design Patterns • API Design • Process Modeling • Data Migration • Enterprise Application Integration • Content Management Systems • Search Technologies • Business Intelligence • Mobile Application Development • Open Source Software • Agile Methodologies • Scrum • Test Driven Development

### ***Technologies***

HTML5 • JS • CSS • PHP • LESS • D3 • Git • ES6 • NPM • MVC • OOP • ORM • P3 • R • API • JSON • RPC • XML/SLT • RDF • RSS • g11n • i18n • l10n • t9n • a11y • CLDR • Bash • Makefile • Python • Flex • Java • SQL • NoSQL • RDBMS • ETL • SOAP • REST • MacOS/Linux/Windows • VM • LAMP • YAML • CANVAS • UML • W3C • Chrome Dev Tools

### ***Tools***

Adobe Acrobat • Adobe ColdFusion • Adobe Creative Suite • Analog • Apache Cordova • Apache Spark • Apache Tomcat • Atlassian Jira • Atlassian Confluence • Backbone • Balsamiq • Bootstrap • Canto Cumulus • Docker • Elasticsearch • FusionMaps • Github • Google Analytics • Google Web Apps • Handlebars • Heroku • IBM Cognos Framework Manager and Report Studio • Invision • Jasmine • Jetty • Jira • jQuery • Lyris ListManager • Microsoft Office • MongoDB • MySQL • Nightmare • Node • Oracle • Pentaho ETL • Postman • Processing 3 • Protobuf • Puppeteer • Reference Manager • Selenium • SugarCRM • Swagger • Tape • Three.js • Underscore • Webinator • WebTrends • WordPress • XMind