

Ryan C. Riddle

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WORK EXPERIENCE

Software Designer V at **OpenText** (previously at **HP Inc.**), 2013-Present

I work on the Exstream product suite which is used by hundreds of organizations to manage and produce customer facing documents in a variety of formats including PDF and HTML. I have contributed to a mature C++ code-base consisting of millions of lines of code that runs on various platforms including Windows, Linux, HP-UX, AIX, Solaris, and z/OS. I have also contributed to the first version of a JavaScript application for editing documents in the browser. I have worked as part of an agile scrum team and I have taken initiative to improve the quality and performance of our products.

Accomplishments and Initiatives

- Proved the Exstream design application can run 100x faster on wide area networks
- Added spell-checking to the Exstream in-browser document editor by compiling the robust Hunspell library to JavaScript with Emscripten
- Fixed defects and improved code quality by introducing C++14 and unit tests
- Integrated the Exstream design environment with an OpenText content management system
- Extended the Exstream engine to produce accessible HTML using WCAG 2.0 and ARIA
- Extended the Exstream engine to help customers transform their HTML documents to other document types
- Created a UI to interact with XML documents
- Worked with SQL Server, Oracle, DB2, and Access

Web Developer at **3M**, 2011-2013

I created and maintained several process control systems using Ruby on Rails. I communicated with business leaders and users to understand the manufacturing processes and to gather requirements. I led the development team by assigning projects and interviewing candidates.

PERSONAL PROJECTS

- chord – Ruby implementation of the Chord distributed hash table protocol
- [elgamal](#) – Python implementation of the ElGamal cryptosystem

EDUCATION

Recurse Center, 2017

- Wrote a transactional, document-oriented database in Ruby
- [Implemented](#) Dijkstra's Algorithm and Nearest Neighbor on GTFS Subway data from the MTA

University of Kentucky, 2013

- B.S. in Computer Science and Mathematics
- Honors
 - *Summa cum laude*
 - Honors Program with a focus on World Food Issues
- Activities
 - Served on the education committee of the Beta Theta Pi Fraternity
 - Fencing Club