

carmen d. rocco

<http://mw.logbook.am/carmen>

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Work area:

end-user and workgroup-centric software enabling a decentralized data topology. Emphasis on maintainability, resilience, elimination of technical debt, evolution pathways and standard compliance

Technical Focus

Languages: FP + scripting preference: sh, Haskell, Perl, Javascript, Ruby query: GraphQL, SPARQL, SQL

Data interchange: normalization for input to Machine Learning systems, parsers, regular expressions, domain-specific heuristics. HTML, JSON (JSON-LD), RDF (Turtle)

APIs: HTTP (RFC7231), DOM/JS, LDP (Linked Data Platform) aka Solid

OS: "UNIX-like" Android, Linux, OpenBSD, NetBSD

Professional Experience

Ongoing: Open Source Software Developer

platforms and frameworks for multi-protocol convergence facilitating agnostic interoperability with any RFC/spec-compliant client including legacy systems (terminal / console / text-mode apps)

code: <https://github.com/cubedcod/>
<https://gitlab.com/ix>

2014 - 2019: Software Consultant/Engineer, Boston College, Chestnut Hill, MA

- **Lynch School of Education Rett Syndrome Research, Principal Investigator, Dr. Susan Bruce, Ph.D., M.A., B.A.**
 - Developed software modules as add-ons to customize Databrary/Datavyu. Creation and analysis of spreadsheets for coded behavioral observations from video data
code: <http://code.whats-your.name/.rett/>
 - Troubleshoot of Datavyu coding issues encountered by workers in Rett Syndrome Study
 - Collaboration with the study's Co-Principal Investigators, Research Assistants & Faculty Liaison to apply statistical-methods and quality-control to the research datasets

2005 - 2009: Small business consulting, Side-By-Side LLC, Boston, MA

- Identified potential improvements to human service's organization's scheduling process by analyzing errors resulting from manual editing of Word and Excel schedule-documents by staff
- Authored a scheduling solution as an editable web document implementing a drag-and-drop scheduling and calendar editor. HTML5 editable documents use the document as the database, eliminating need for a central server, and file containment makes them trivially emailable and shareable by the editor, without a monthly hosting or app-subscription bill
- Codified rules for the dependencies between staff availability and locations. Reduced administrative time spent on this task by roughly 80%

2000 - 2001: Software developer Gilder Gagnon Howe and Co, San Francisco, CA

- Conceptualized and built analytical and visualization-oriented software prototypes in a "skunkworks" within a larger asset-management firm.
- Identified that enabling easy uptake of next-generation tools would be helped by frictionless deployment and moved apps to web forms pushing limits of deployed technology (Perl,PHP,JS)

- Increased awareness among managers and analysts of internal portfolio data as well as trends occurring in publicly-available data sources via bespoke aggregation and analysis.

1999 – 2002: Web developer and designer, San Francisco, CA

CMP Media

- Integrated updates to production publishing system, such as new Perl template-pipeline code, and seasonal design revisions into layout templates.

Son Heavy

- Hand-rolled HTML and CSS for an informational website for Power Bar's product line. Conjured up flash-free solutions to layout needs like multiple columns and rounded corners and debugged inevitable browser consistency issues across many supported user agents.

Xuma

- Participated in the construction of e-commerce web sites. Designed templates for page generation, as a liaison between back end coders and front-end designers.
- Integrated customizations, plugins and modifications in a move towards automated site-generation.
- Debugged occasional DNS and datacenter issues.

1995 – 1998: Technology Coordinator, Learning Unlimited Schools, Columbus, OH

- Taught after school enrichment classes to elementary & middle school students, including educational computer programs and art.
- Installed, configured, and repaired technology resources for Learning Unlimited Schools.

1996: Teaching Assistant, Ohio State University, Columbus, OH

- Assisted teaching of College of Education's graduate "Technology in Education" course. Gave technical presentations on various topics. Assisted community teachers in creating academic tools with technologies like HTTP, HyperCard, and desktop-publishing tools.

1992 - 1996: Graphic design work, Dublin/Columbus, OH

- **"Supporters of Educational Excellence" (SEED), Dublin, OH:** Designed brochures and catalogs for enrichment and continuing-education classes.
- **The Ohio State University Aviation Department:** Designed 1995 Aviation Psychology Conference Website, and overhauled front end of department website. Improved usability by creating a cleaner, more navigable design.

1993-1994: Technical support specialist, United Nations Conference on Trade and Development and North American Trade Point, Columbus, OH

- Facilitated technology deployment for this United Nations sponsored program. Installed Window's PCs and UNIX workstations, TCP/IP networking, software support, on-call maintenance
- IT office support leading up to United Nations World Summit on Trade Efficiency, hosted by Columbus office. Networking, software installation, and data entry