

## Courtney Louise Rosenthal

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Senior technical contributor with deep experience in product feature design and delivery into enterprise software, communications, and device industries. Considering opportunities that incorporate elements of device management and automation, communication protocols/services, open source frameworks/tooling.

### Principal Software Engineer

CommScope, Austin, TX (Apr 2019 – present)

ARRIS, Austin, TX (Jan 2016 – Apr 2019)

Pace, Austin, TX (Mar 2013 – Jan 2016)

- I design new features for our team of developers, as well as coding. Our products manage and provide intelligence for residential broadband CPE (customer premise equipment) in populations sometimes exceeding a million devices.
- Currently work on platform for device and service management for CPE based on Broadband Forum User Services Protocol (USP, TR-369). (Kotlin, Java 11, JavaScript, Spring Boot, Elastic Search, CockroachDB, RabbitMQ, Kafka, Consul, Prometheus, Docker, gradle, Jenkins, git, STOMP, MQTT)
- Previously, worked on platform that manages CPE based on CWMP (TR-069). (Java 8, Spring, RabbitMQ, ElasticSearch, Hibernate, PostgreSQL, Oracle, Python, Maven)
- Refactor legacy product from on-premises architecture toward cloud native. (Docker, AWS, Ansible, Terraform)
- Architect and implement REST APIs for platform operation and management. (Spring MVC, Swagger)
- Developed embedded agent that provides TR-069 management to devices. (C, autoconf, CWMP, SOAP, XML)

### Software Engineer (Contract)

CoreTrace Corp, Austin, TX (Jul 2010 – Nov 2012)

- CoreTrace developed an enterprise product that implemented application “allow lists” to ensure workstations and servers did not execute untrusted software.
- Designed and implemented a web service that tracked known good and potentially bad/malware software in an enterprise. (Java, MySQL, Hibernate, REST, Tomcat, Jersey, Ruby)

### Software Engineer (Contract)

Pervasive Software, Austin, TX (Oct 2006 – Jun 2010)

- Reported to the CTO. Performed research and development for new products and technologies.
- Piloted transition of traditionally hosted ETL products into a cloud-based online service. Produced prototypes integrating real-time event processing and NoSQL database into the ETL products.

## Previous

- Metadot, Austin, TX. Contract developer, Ruby on Rails ticketing system. (Jan 2006 – Oct 2006)
- BroadQ, Austin, TX. Contract developer, embedded Linux development. (Jun 2005 – Dec 2005)
- Veritas Software, Austin, TX. Contract developer, bare metal system recovery utility for Linux/Unix. (Jun 2004 – May 2005)
- Unicom Systems Development, Austin, TX. Owner, provided contract development services. (Mar 2001 – Jun 2004)
- Covad Communications, Austin, TX. Principal Engineer, designed ISP services related to authentication and email, managed Austin R&D facility. (Jan 1999 – Feb 2001)
- The University of Texas at Austin, Austin, TX. Adjunct Lecturer in Graduate School of Library and Information Science. (Jan 1998 – May 1999)

## Education

- **Cornell University**, Bachelor of Science in Electrical Engineering
- **University of Texas at Dallas**, part-time masters student in School of Computer Science

## /etc

- SXSW: Speaker, session organizer, and advisory board member. Nominated for the *Dewey Winburne Community Service Award* at SXSW 2005.
- Austin Chronicle: *rBest of Austin* critic awards, recognized three times for various online projects
- City of Austin Community Technology and Telecommunications Commission: served from 2002 through 2014, advising the mayor and city council on technology issues.
- City of Austin Library Commission: serving since 2021, to represent community interest for our public libraries.
- Public software projects: <https://github.com/courtney-rosenthal/>
- Last updated 3 Jun 2023: <https://www.crosenthal.com/resume>