Courtney Louise Rosenthal

cr+resume@crosenthal.com

Seeking software development position with a focus on public benefit. Full-time or part-time opportunity that utilizes both my technical experience (primarily with back-end development and system software) and my public interest experience. Remote positions only.

Technical Experience

Principal Software Engineer

CommScope (Apr 2019 – present) | Arris Intl Ltd (Jan 2016 – Apr 2019) | Pace plc (Mar 2013 – Jan 2016)

- I design and implement new features for products that manage residential broadband CPE (customer premise equipment) in populations that can exceed millions of devices.

- Currently developing our next generation CPE management platform, based on Broadband Forum User Services Protocol (USP, TR-369) management protocol. (AWS Serverless, Lambda, Java 17, Kotlin, JavaScript, Quarkus, DynamoDB, OpenSearch, Terraform)

- Lead designer for the last major release of our previous CPE management platform, also using TR-369 USP management protocol. (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) management protocol. (Java 8, Spring, Hibernate, PostgreSQL, Oracle, Python, Maven)

Previous

- Software Engineer (Contract), CoreTrace Corp (2010 – 2012)
  API to identify malware. (Java)

- Software Engineer (Contract), Pervasive Software (2006 – 2010)
  Cloud-based ETL service. (Drupal, HBase)

- Software Engineer (Contract), Metadot (2006)
  Help desk ticketing system. (Ruby on Rails)

- Embedded Software Engineer (Contract), BroadQ (2005)
  Media player development on PlayStation 2. (embedded Linux, C)

- Software Engineer (Contract) Veritas Software (2004 – 2005)
  Bare metal recovery system for Linux servers. (C++)

- Consultant, Unicom Systems Development (2001 – 2004)
  Operations consulting for Unix systems.

- Principal Engineer and Site Manager, Covad Communications (1999 – 2001)
  Mail and authentication service for white-label ISP. Managed Austin design lab.

- Adjunct Lecturer, Graduate School of Library and Information Science, University of Texas at Austin (1998 – 1999)
  Created and taught course on early Internet services.

- System Administrator, Deja News (1995 – 1996)
  Designed high performance news protocol server for 1st gen search engine. BSD and Linux admin.

- Consultant, Unicom Systems Development (1990 – 1995)
  Operations consulting for Unix systems.

- Senior Systems Engineer, Dallas Semiconductor (1986 – 1989)
  Systems engineering and test engineering for telecommunications chips and systems.

- Senior Test Engineer, Intel Corp, (1982 – 1986)
  Product and test engineering for microprocessor chips.

Public Interest and Civic Technology

Open Austin
Director (Nov 2023 – present)
Chair (2013 - 2015)

Open Austin addresses local social and civic challenges through creative uses of technology. We foster relationships between government, non- and for-profit organizations, and resident activists. From 2013-15 I was chair of the organization and its first Code for America Brigade Captain. I rejoined the board in 2023, with a particular interest in open data and community-led civic hacking.

City of Austin Library Commission
Commissioner (Mar 2021 – present)

The commission makes recommendations to the Austin City Council about the establishment, maintenance and operation of the public libraries. In 2023, I led the Legislative Issues working group, which reviewed state bills that impacted public libraries. Our group's recommendations resulted in a "Freedom to Read" resolution adopted by the City Council.

City of Austin Community Technology and Telecommunications Commission
Commissioner (2002 – 2014)

The commission advises the Austin City Council on community technology, telecommunications services, and other technology matters, with a focus on digital equity. Accomplishments include supporting the institution of the city's first open government policy and open data portal, and contributing to the creation of the Office of Civic Innovation.

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

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- SXSW: Speaker, session organizer, and advisory board member. Nominated for the *Dewey Winburne Community Service Award* at SXSW 2005.

- Austin Chronicle: *Best of Austin* critic awards, recognized three times for various online projects

- Public software projects: https://github.com/courtney-rosenthal/

- Last updated 24 Nov 2023: https://www.crosenthal.com/resume