

Shawn M. Emery

Security Software Developer - Specializing in Blockchain, Kerberos, GSS-API, and SASL

EXPERIENCE

University of Colorado, Colorado Springs, CO – Research Assistant

June 2019 - Present

Security research in blockchain technologies. Targeting smart contract security analysis, Hyperledger Fabric and Ethereum Parity frameworks, wallet security, and proof of work and authority rounds consensus algorithms.

CrypTech/Data2Care Technologies, Denver, CO — Founder/Co Founder

March 2017 - Present

Developed mHealth apps for iOS and Android. Applications include pediatric oral rehydration therapy, utilizing authentication, analytics, and cloud database.

Oracle (formerly Sun Microsystems), Broomfield, CO

January 1998 - January 2017

Principal Software Developer — January 2000 - January 2017

Developed, maintained, and extended the Kerberos, GSS-API, and SASL frameworks and dependent applications (sec-NFS, SMB, LDAP, etc.).

Technical Support Engineer — January 1998 - January 2000

Provided technical support for authentication, network, file, and naming services; DNS, NIS, NIS+, NFS, PAM, network, and routing.

Internet Engineering Task Force (IETF) Co-Chair — Kerberos/GSS-API/SASL

June 2007 - November 2014

Co-chaired the Common Authentication Technologies Next Generation (kitten) Working Group.

Raytheon (formerly Hughes Aircraft), Aurora, CO — SunOS/Solaris System Administrator

January 1996 - January 1998

Administered SunOS and Solaris infrastructure. Developed database and web applications.

SKILLS

Programming Languages: C, Java, Swift, JavaScript, Solidity, and Python

Operating Systems: Solaris, Ubuntu, CentOS, iOS, Android, and Windows Server

IETF Standardization Process Knowledge

Project Team Leadership

Excellent Communication Skills and an Effective Remote Contributor

AWARDS/Recognition

American Academy of Pediatrics SOEM

Technological Innovation Award 2019

Operating Platforms Group “People’s Choice” Award (2003) - Team Work

STARS Award (1999) - Sun’s Top Achievement Recognition Summit

Consistently Received Superior Reviews.

LANGUAGES

English

EDUCATION

University of Colorado, Colorado Springs, CO - PhD student in Cyber Security

June 2019 - Present

Current emphasis is in blockchain security, consensus algorithms, and wallet encryption.

University of Colorado, Colorado Springs, CO — MS in Computer Science

January 1995 - May 2000

Thesis: Dynamic Load Balancing on Virtual Web Servers

Colorado State University, Fort Collins, CO — BS in Computer Science

September 1991 - December 1993

Focused on operating systems and parallel programming.

PROJECTS

IETF Contributor — Kerberos/GSS-API/SASL

November 2006 - March 2015

Author/Co-Author/Editor of RFC 6542, 7802, and 8062.

June 2007 - Present

Security directorate reviewer of IETF drafts.