

# Eriq A. Augustine

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<https://github.com/eriq-augustine>

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## WORK EXPERIENCE

- 2013 - Present      **Senior Software Developer** - *Gaine Solutions*  
Research and development on enterprise master data management solutions.
- 2013 - Present      **Lecturer** - *California Polytechnic State University, San Luis Obispo; Computer Science Department*  
Lecturer for various classes including *Introduction to Databases*, *Discrete Structures*, and *Introduction to Computer Science*.
- 2013                  **Contractor** - *Gaine Solutions*  
Research and development on an NLP based question answering system.
- 2012 – 2013        **Student Software Engineer** - *Software Inventions*  
Subcontracted for the Google Chrome Extensions team. Worked on the extension engine.
- 2012                  **Software Engineering Intern** - *Google Inc.*  
Worked with the Google Chrome Extensions team on various bugs and new features.
- 2010 – 2011        **Instructor** - *California Polytechnic State University, San Luis Obispo; Computer Science Department*  
Instructor for an entry-level computer science course designed for students who need extra help.
- 2009 – 2013        **Tutor** - *California Polytechnic State University, San Luis Obispo; Computer Science Department*  
Leader of a free tutoring center where any student can come for help in any computer science class.

## EXPERIENCE

- 2014 - Present      Built a media server with a fully HTML5 frontend. Includes support for most popular media formats and on-the-fly encoding of video files and subtitles to an HTML5 compliant format.  
<https://github.com/eriq-augustine/media-server>
- 2013 - Present      Built an automated translation and OCR system for Japanese comics.  
<https://github.com/eriq-augustine/jocr>
- 2013                  Built a multiplayer, browser-based puzzle game.  
<https://github.com/eriq-augustine/sgb>
- 2010 - 2013        Built a distributed framework for real-time social media analysis focusing on detecting Netflix service outages using Twitter. (See publications).
- 2012                  Built a webapp for the Cal Poly Biology department to use to annotate genes:  
<https://github.com/rverdon/CGAT/tree/master/ui>
- 2012                  Built a new Google Chrome Extensions API that allows Chrome extensions to invoke native applications on the host machine. Currently used by internal Google teams and will soon be released as a public API.
- 2012                  Built an IRC chatbot that was used to aid Google Chrome developers:  
<https://github.com/eriq-augustine/clefable>
- 2012                  Built an automated citation guesser that uses NLP and Machine Learning to place citations in academic papers: <https://github.com/eriq-augustine/citeopotamus>
- 2010                  Implemented various KDD techniques and algorithms from scratch including PageRank, Apriori, C4.5, and k-means
- 2010                  Designed and built a parser for a fully featured object-oriented language
- 2010                  Built a simple Ruby on Rails shopping site
- 2010                  Built a compiler for the EVIL language (a C derivative)
- 2009 – 2010        Managed a student software development team working on a turn-based strategy game
- 2009                  Built an interpreter for the D# language
- 2009                  Designed and simulated MIPS processor with four stage deep pipeline
- 2009                  Programmed Linux shell with full pipe and redirection support
- 2004 – 2013        Teaching/Tutoring:
  - Privately tutored over 50 students in math, physics, chemistry, and computer science
  - Official computer science tutor with Cal Poly's Computer Science DepartmentLead large group and individual tutoring
- 2003 – Present      Designed and built desktop computers cases for various clients

## PUBLICATIONS

- 2013 Eriq Augustine. SPOONS: Netflix outage Detection Using Microtext Classification. Master's thesis, California Polytechnic State University - San Luis Obispo, March 2013
- 2012 Eriq Augustine, Cailin Cushing, Alex Dekhtyar, Kevin McEntee, Kimberly Paterson, and Matt Tognetti. Outage detection via real-time social stream analysis: leveraging the power of online complaints. In Proceedings of the 21st international conference companion on World Wide Web (WWW '12 Companion). ACM, New York, NY, USA, 13-22. DOI=10.1145/2187980.2187983  
<http://doi.acm.org/10.1145/2187980.2187983>

## SKILLS

Languages: C, C++, Java, Ruby, Javascript, GO, CSS, SQL, PHP, Python, ML

Environments: Linux, Unix, Windows, Mac

Database Systems: MySQL (Oracle & MariaDB), Oracle SQL, MongoDB, Couchbase, CouchDB

Mechanical: Soldering, Welding, Backhoe, Various power tools

Communication:

- Japanese - real world experience in Japan, studied for two years, currently studying at Cal Poly
- Chinese (Traditional Mandarin) – studied for five quarters at Cal Poly

## EDUCATION

2007 – 2013

*California Polytechnic State University, San Luis Obispo*

BS and MS in Computer Science student with **3.9 major GPA**

Relevant Coursework:

Design and Analysis of Algorithm	Computer Design and Assembly Programming	Programming Languages I & II (Interpreters & Compilers)
Software Engineering I & II	Introduction to Databases	Ruby Programming
Computer Architecture	Knowledge Discovery from Data	Ruby on Rails Web Development
Systems Programming	Public Speaking	Theory of Computation
Introduction to Operating Systems	Technical Writing for Engineers	Individual Software Design and Development
Graduate Databases	Graduate Natural Language Processing	

## INTERESTS

Building computer cases including a case out of Legos and a case with components submerged in mineral oil  
Member of various Cal Poly clubs including Association for Computing Machinery, Cal Poly Linux Users Group, Computer Security Club, Game Development Club, Badminton Club

## REFERENCES

Dr. Clint Staley  
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