TYLER CHAPMAN

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EDUCATION

2009-2012 **SF State University** **San Francisco, CA**
M.S. Computer Science

2003–2005 **Boston University** **Boston, MA**
M.S. Astronomy
Emphasis: Galactic Dark Matter Structure

1998–2003 **UC Santa Barbara** **Santa Barbara, CA**
B.S. Physics, B.A. Philosophy
Minor: Astronomy and Planetary Studies
Awards: Distinction in the major, graduated with honors

SKILLS

Programming Languages: Java, C, C++, Python, Shell Scripting
Application Software: Matlab, Mathematica, Weka, Nagios, Ganglia, IDL, IRAF
Operating Systems: Windows, Mac OS X, Linux/Unix
Development Environments: Eclipse, X-Code, NetBeans
Miscellaneous: MySQL, Hadoop, Hbase, Hive, Flume, Google BigQuery, GPU Computing, Data Mining, Machine Learning, Strong background in Mathematics and Physics

WORK EXPERIENCE

Jan 12-Present **Claritics** **Mountain View, CA**
Software Engineer
Primarily extract patterns from large amounts incoming data. Filter through approximately 50 mil events a day to give clients information about retention, and user engagement. Additionally, I migrated and experimented with the organization of customer data within Hbase. Reworked queries from MySql to work as Hadoop mapReduce jobs.

Dec 10-Sept 11 **TRUSTe** **San Francisco, CA**
Software Engineering Intern
Individual contributor as part of a 6 person engineering team. Wrote Java code and MySQL queries for building, updating, and maintaining internal web application. Used Java to automate the synchronization of data from proprietary database to external CRM. Set up a server monitoring system utilizing Nagios and Ganglia.

Jul 07-Feb 09 **New Logic Research** **Emeryville, CA**
Chemical Engineer
Conducted feasibility testing on industrial sized liquid separation machinery. Selected specific testing apparatus, organized procedures, and ran chemical analyses on resulting samples. Executed on-site installations, and trained customers for future maintenance.

RESEARCH EXPERIENCE

Jun 10-Dec 12 **SF State University Physics Department** **San Francisco, CA**
Student Assistant for Andisheh Mahdavi
Converted an astronomy model into a parallelizable structure for use in GPU computing. Included writing for CUDA in C for use on Fermi Tesla video cards. This project enabled for more accurate simulations to be run in vastly shorter time periods than was currently available.